

SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250400030901
Rev.: 01
Page: 1 of 128

TEST REPORT

Application No.: SUCR2504000309MO
Applicant: METICOMM PTE. LTD.
Address of Applicant: 15 UPPER CIRCULAR ROAD, #06-01, SINGAPORE 058413
Manufacturer: METICOMM PTE. LTD.
Address of Manufacturer: 15 UPPER CIRCULAR ROAD, #06-01, SINGAPORE 058413
EUT Description: IoT Module
Model No.: MQM711-0-50-0B, MQM711-0-50-0U, MQM711-0-50-0P ♣
♣ Please refer to section 2 of this report which indicates which model was actually tested and which were electrically identical.
Trade Mark: Meticomm
FCC ID: 2BQY7-M7110
Standards: FCC 47 CFR Part 2, Subpart J
FCC 47 CFR Part 15, Subpart C
Date of Receipt: June 7, 2025
Date of Test: June 8, 2025 to June 16, 2025
Date of Issue: July 11, 2025

Test Result :	PASS *
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* In the configuration tested, the EUT detailed in this report complied with the standards specified above.

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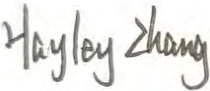


SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250400030901
Rev.: 01
Page: 2 of 128

Version

Revision Record			
Version	Description	Date	Remark
01	Original	July 11, 2025	/

Authorized for issue by:				
Tested By				
		Hayley ZhangProject Manager		
Approved By				
		Cloud Peng/Technical Manager		



SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250400030901

Rev.: 01

Page: 3 of 128

Contents

Version	2
1 Test Summary	4
2 General Information	5
2.1 Details of Client	5
2.2 Test Location	5
2.3 Test Facility	5
2.4 General Description of EUT	6
2.5 Test Environment	8
2.6 Description of Support Units	8
3 Equipment List	9
4 Measurement Uncertainty (95% confidence levels, k=2)	11
5 Test results and Measurement Data	12
5.1 Antenna Requirement	12
5.2 AC Power Line Conducted Emissions	13
5.3 Duty Cycle	17
5.4 Conducted Output Power	18
5.5 DTS (6 dB) Bandwidth & 99% Occupied Bandwidth	19
5.6 Power Spectral Density	20
5.7 Band-edge for RF Conducted Emissions	21
5.8 RF Conducted Spurious Emissions	22
5.9 Radiated Spurious Emissions	23
5.10 Restricted bands around fundamental frequency	26
6 Photographs - Setup Photos	28
7 Appendix	29



SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250400030901

Rev.: 01

Page: 4 of 128

1 Test Summary

Test Item	FCC Rule No.	Test Method	Test Result	Result
Antenna Requirement	15.203/15.247(b)	--	Clause 5.1	PASS
AC Power Line Conducted Emission	15.207	ANSI C63.10 2020 Section 6.2	Clause 5.2	PASS
Duty cycle	--	ANSI C63.10 2020 Section 11.6	Clause 5.3	For Report Purpose
Conducted Output Power	15.247 (b)(3)	ANSI C63.10 2020 Section 11.9	Clause 5.4	PASS
DTS (6 dB) Bandwidth & 99% Occupied Bandwidth	15.247 (a)(2)	ANSI C63.10 2020 Section 11.8 / 6.9	Clause 5.5	PASS
Power Spectral Density	15.247 (e)	ANSI C63.10 2020 Section 11.10	Clause 5.6	PASS
Band-edge for RF Conducted Emissions	15.247(d)	ANSI C63.10 2020 Section 11.11	Clause 5.7	PASS
RF Conducted Spurious Emissions	15.247(d)	ANSI C63.10 2020 Section 11.11	Clause 5.8	PASS
Radiated Spurious Emissions	15.205/15.209	ANSI C63.10 2020 Section 11.12	Clause 5.9	PASS
Restricted bands around fundamental frequency (Radiated Emission)	15.205/15.209	ANSI C63.10 2020 Section 11.12	Clause 5.10	PASS



SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250400030901

Rev.: 01

Page: 5 of 128

2 General Information

2.1 Details of Client

Applicant:	METICOMM PTE. LTD.
Address of Applicant:	15 UPPER CIRCULAR ROAD, #06-01, SINGAPORE 058413
Manufacturer:	METICOMM PTE. LTD.
Address of Manufacturer:	15 UPPER CIRCULAR ROAD, #06-01, SINGAPORE 058413

2.2 Test Location

Company:	SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.
Address:	South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone
Post code:	215000
Test engineer:	Tizzy Song

2.3 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

- **A2LA (Certificate No. 6336.01)**

SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 6336.01.

- **Innovation, Science and Economic Development Canada**

SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0120.

IC#: 27594.

- **FCC –Designation Number: CN1312**

SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. has been recognized as an accredited testing laboratory.

Designation Number: CN1312.

Test Firm Registration Number: 717327



SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250400030901

Rev.: 01

Page: 6 of 128

2.4 General Description of EUT

Hardware Version:	N/A
Software Version:	N/A
Power Supply:	3.3V
Operation Frequency:	2400MHz~2483.5MHz $f_c = 2402 \text{ MHz} + N * 2 \text{ MHz}$, where: - f_c = "Operating Frequency" in MHz, - N = "Channel Number" with the range from 0 to 39.
Bluetooth version:	V5.4
Modulation Type:	GFSK
Number of Channel:	40
Rates Type*:	☒ Provided by client
	1M PHY 2M PHY 125kbps 500kbps
Antenna Type:	MQM711-0-50-0U, MQM711-0-50-0P: Dipole Antenna MQM711-0-50-0B: PCB Antenna
Antenna Gain:	MQM711-0-50-0U, MQM711-0-50-0P: 3.37dBi MQM711-0-50-0B: 1.24dBi
	Note: The antenna gain are derived from the gain information report provided by the manufacturer.
RF Cable:	1dB
Remark: 1.As above information is provided and confirmed by the applicant. SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information. 2. The differences between models are listed below, while the other parts are completely identical. Based on the differences, complete testing was conducted for MQM711-0-50-0U, and RSE was tested for MQM711-0-50-0B. 3. For BLE 125K/500K/1Mbps, they are same modulation and bandwidth, thus full test 1M to cover 125K/500K by referring to the max output power.	

Model	MQM711-0-50-0U	MQM711-0-50-0B	MQM711-0-50-0P
Antenna	1 types: Dipole	1 type: PCB	1 types: Dipole
Impedance	C21=NC C20=NC	C21=NC C20=NC	C21=NC C20=NC
Impedance	C19=10pF	C19=10pF	C19=10pF
Support platform system and feature	Support external antenna with antenna connect on module	Support integrated PCB antenna	Support external antenna with antenna connect on host platform. Module support RF output pins in the module package.



SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250400030901

Rev.: 01

Page: 7 of 128

Antenna Type	Antenna Part No.	Freq.	Peak Antenna Gain (dBi)
PCB Antenna	RFIQM0711010NB001	2.4G Hz	1.24
Dipole Antenna	RFPCA521010EMABY01		3.37
Remark: 1. Pre-scan was done on the above antennas, measurements were demonstrated by using the antenna with the highest gain as the worst case scenarios. 2. Antenna information is provided by the applicant.			

Operation Frequency of each channel							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
0	2402MHz	10	2422MHz	20	2442MHz	30	2462MHz
1	2404MHz	11	2424MHz	21	2444MHz	31	2464MHz
2	2406MHz	12	2426MHz	22	2446MHz	32	2466MHz
3	2408MHz	13	2428MHz	23	2448MHz	33	2468MHz
4	2410MHz	14	2430MHz	24	2450MHz	34	2470MHz
5	2412MHz	15	2432MHz	25	2452MHz	35	2472MHz
6	2414MHz	16	2434MHz	26	2454MHz	36	2474MHz
7	2416MHz	17	2436MHz	27	2456MHz	37	2476MHz
8	2418MHz	18	2438MHz	28	2458MHz	38	2478MHz
9	2420MHz	19	2440MHz	29	2460MHz	39	2480MHz
Remark: In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:							
Channel				Frequency			
BLE 1M:							
The Lowest channel(CH0)				2402MHz			
The Middle channel(CH19)				2440MHz			
The Highest channel(CH39)				2480MHz			
BLE 2M:							
The Lowest channel(CH0)				2402MHz			
The Middle channel(CH19)				2440MHz			
The Highest channel(CH39)				2480MHz			
BLE 125kbps:							
The Lowest channel(CH0)				2402MHz			
The Middle channel(CH19)				2440MHz			



SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250400030901

Rev.: 01

Page: 8 of 128

The Highest channel(CH39)	2480MHz
BLE 500kbps:	
The Lowest channel(CH0)	2402MHz
The Middle channel(CH19)	2440MHz
The Highest channel(CH39)	2480MHz

2.5 Test Environment

Environment Parameter	101 kPa Selected Values During Tests	
Relative Humidity	44-46 % RH Ambient	
Value	Temperature(°C)	Voltage(V)
NTNV	-40~85	3.3
Remark: NV: Normal Voltage NT: Normal Temperature		

2.6 Description of Support Units

The EUT has been tested as an independent unit.



SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250400030901

Rev.: 01

Page: 9 of 128

3 Equipment List

Item	Equipment	Manufacturer	Model	Inventory No	Cal Date	Cal. Due Date
Conducted Emission at Mains Terminals						
1	EMI Test Receive	R&S	ESR7	SUWI-01-10-01	1/15/2025	1/14/2026
2	LISN	R&S	ENV216	SUWI-01-19-03	2025/5/8	2026/5/7
3	LISN	Schwarzbeck	ENV216	SUWI-01-19-04	2025/5/8	2026/5/7
6	Test Software	Tonscend	JS32-CE_4.0.0.2	SUWI-02-09-05	N.C.R	N.C.R
RF Conducted Test						
1	Shielding Room	Brilliant-emc	N/A	SUWI-04-08-01	11/9/2022	11/8/2025
2	Signal Analyzer	ROHDE&SCHWARZ	FSW43	SUWI-01-02-04	2025/5/8	2026/5/7
9	Signal Analyzer	KEYSIGHT	N9020A	SUWI-01-02-15	11/21/2024	11/20/2025
7	MXG Vector signal genitor	KEYSIGHT	N5182B	SUWI-01-38-01	1/15/2025	1/14/2026
8	Signal Generator	ROHDE&SCHWARZ	SMW200A	SUWI-01-07-08	3/27/2025	3/26/2026
10	MXG Vector Signal Generator	ROHDE&SCHWARZ	SMR20	SUWI-01-33-01	3/17/2025	3/16/2026
3	Wideband Radio Communication Tester	ROHDE&SCHWARZ	CMW500	SUWI-01-16-13	2025/5/8	2026/5/7
11	Wideband Radio Communication Test Ststion	Anritsu	MT8000A	SUWI-01-34-02	11/19/2024	11/18/2025
12	Wideband Radio Communication Tester	Anritsu	MT8821C	SUWI-01-26-03	11/19/2024	11/18/2025
5	Power meter	Anritsu	ML2495A	SUWI-01-31-01	11/19/2024	11/18/2025
6	Pulse power sensor	Anritsu	MA2411B	SUWI-01-32-01	11/19/2024	11/18/2025
4	DC Power Supply	HYELEC	HY3005B	SUWI-01-18-01	1/15/2025	1/14/2026
13	Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-07	2/13/2025	2/12/2026
14	Temperature Chamber	GIANT FORCE	ICT-017-40-SP-SD	SUWI-01-13-02	2025/5/8	2026/5/7
15	Measurement Software	TST	TST 272 V2.0	SUWI-03-55-03	NCR	NCR
RF Radiated Test						
1	Semi-Anechoic Chamber	Brilliant-emc	N/A	SUWI-04-02-01	6/3/2023	6/2/2026
4	Signal Analyzer	ROHDE&SCHWARZ	FSW43	SUWI-01-02-04	1/20/2025	1/19/2026
5	Signal Analyzer	KEYSIGHT	N9020A	SUWI-01-02-09	11/21/2024	11/20/2025
6	Test receiver	ROHDE&SCHWARZ	ESR7	SUWI-01-10-01	1/15/2025	1/14/2026
8	Receiving antenna	SCHWRZBECK MESS-ELEKTRONIK	VULB 9168	SUWI-01-11-04	8/22/2024	8/21/2026
9	Receiving antenna	SCHWRZBECK MESS-ELEKTRONIK	BBHA 9120D	SUWI-01-11-02	5/7/2025	5/6/2027
10	Receiving antenna	SCHWRZBECK MESS-ELEKTRONIK	BBHA 9170	SUWI-01-11-03	5/7/2025	5/6/2027
11	Active Loop Antenna	SCHWRZBECK MESS-ELEKTRONIK	FMZB 1519B	SUWI-01-21-01	5/7/2025	5/6/2027
12	Amplifier	Tonscend	TAP9K3G40	SUWI-01-14-01	1/16/2025	1/15/2026
13	Amplifier	Tonscend	TAP01018050	SUWI-01-14-02	1/16/2025	1/15/2026
14	Amplifier	Tonscend	TAP18040048	SUWI-01-14-03	1/20/2025	1/19/2026
15	Wideband Radio Communication Tester	Anritsu	MT8820C	SUWI-01-26-01	2025/5/8	2026/5/7
16	Wideband Radio Communication Tester	Anritsu	MT8821C	SUWI-01-26-03	11/19/2024	11/18/2025
17	Wideband Radio Communication Tester	ROHDE&SCHWARZ	CMW500	SUWI-01-16-09	2025/5/8	2026/5/7
18	Radio Communication Analyzer	StarPoint	SP9500E	SUWI-01-28-02	11/19/2024	11/18/2025



SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250400030901
Rev.: 01
Page: 10 of 128

3	Signal Generator	ROHDE&SCHWARZ	SMB100A	SUWI-01-08-01	2025/5/8	2026/5/7
7	DC Power Supply	HYELEC	HY3005B	SUWI-01-18-01	1/15/2025	1/14/2026
2	Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-05	2/13/2025	2/12/2026
19	Measurement Software	Tonscend	JS32-RSE 4.0.0.1	SUWI-02-09-06	NCR	NCR

Remark: NCR=No Calibration Requirement.



SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250400030901

Rev.: 01

Page: 11 of 128

4 Measurement Uncertainty (95% confidence levels, k=2)

No.	Item	Measurement Uncertainty
1	Total RF power, conducted	±0.54dB
2	RF power density, conducted	±1.03dB
3	Spurious emissions, conducted	±0.54dB
4	Radio Frequency	1%
5	Duty Cycle	±0.37%
6	Occupied Bandwidth	1%
7	Conduction Emission	± 2.90dB (150kHz to 30MHz)
8	Radiated Emission	± 3.13dB (9k -30MHz)
		± 4.8dB (30M -1GHz)
		± 4.8dB (1GHz to 18GHz)
		± 4.80dB (Above 18GHz)
Remark: The U _{lab} (lab Uncertainty) is less than U _{CISPR/ETSI} (CISPR/ETSI Uncertainty), so the test results – compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit; – non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit.		



SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250400030901

Rev.: 01

Page: 12 of 128

5 Test results and Measurement Data

5.1 Antenna Requirement

Standard requirement:	47 CFR Part 15C Section 15.203 /247(b)
15.203 requirement: An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. 15.247(b) (4) requirement: The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.	
The antenna is PCB Antenna and dipole Antenna and no consideration of replacement. The best case gain of the antenna is 1.24dBi for PCB Antenna, 3.37dBi for Dipole Antenna <i>Note:</i> <i>The antenna gain are derived from the gain information report provided by the manufacturer.</i> <i>Remark:</i> <i>As above information is provided and confirmed by the applicant. SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information.</i>	



SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250400030901

Rev.: 01

Page: 13 of 128

5.2 AC Power Line Conducted Emissions

Test Requirement:	47 CFR Part 15C Section 15.207		
Test Method:	ANSI C63.10: 2020 Section 6.2		
Test Frequency Range:	150kHz to 30MHz		
Receiver Setup:	RBW = 9kHz, VBW = 30kHz		
Limit:	Frequency range(MHz)	Limit (dBuV)	
		Quasi-peak	Average
	0.15-0.5	66 to 56*	56 to 46*
	0.5-5	56	46
	5-30	60	50
* Decreases with the logarithm of the frequency.			
Test Procedure:	1) The mains terminal disturbance voltage test was conducted in a shielded room. 2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50Ω/50μH + 5Ω linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded. 3) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane. 4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2. 5) In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10: 2013 on conducted measurement.		

SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250400030901

Rev.: 01

Page: 14 of 128

Test Setup:	
Test Mode:	BT Link
Instruments Used:	Refer to section 3 for details.
Test Results:	Pass



SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250400030901

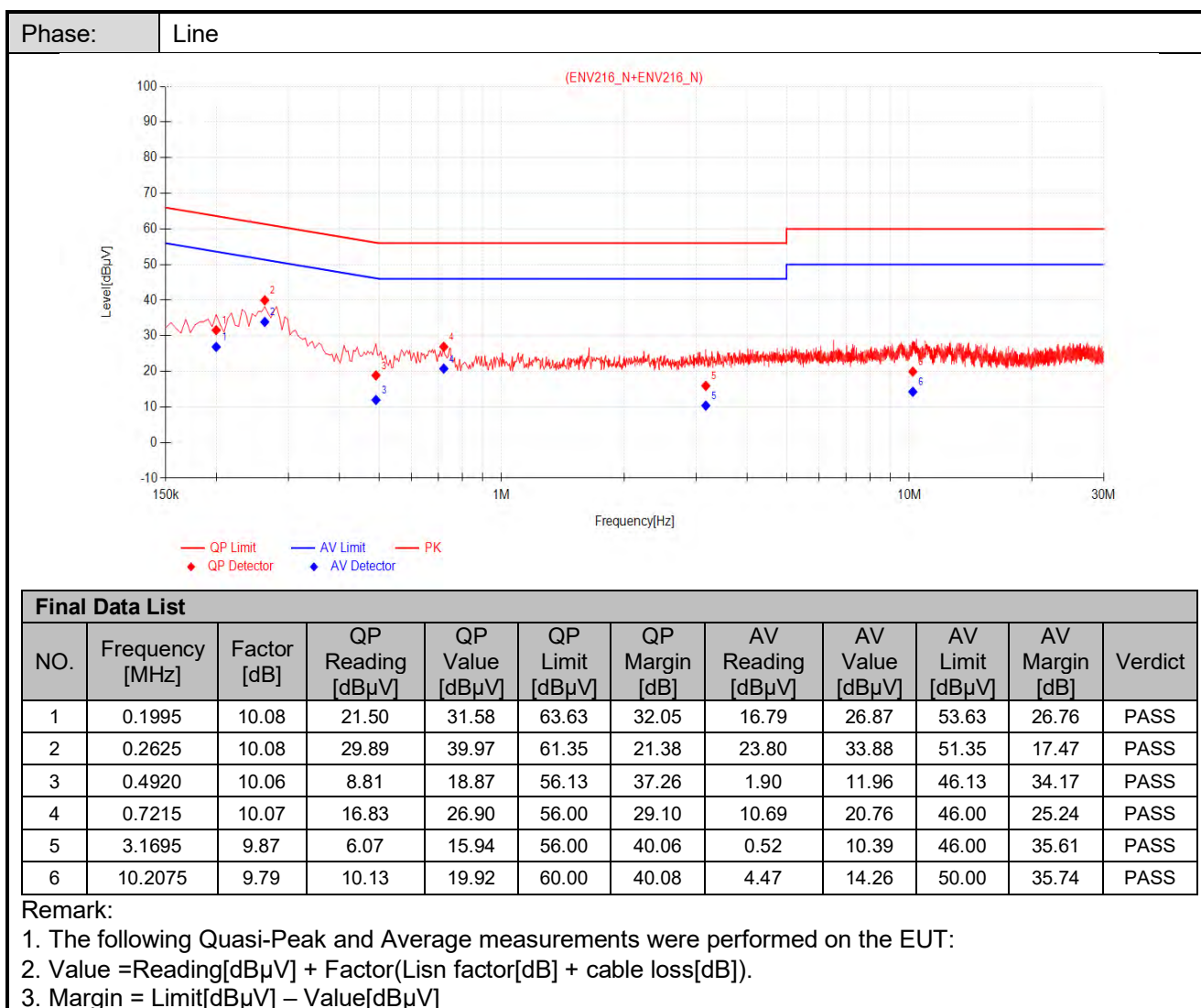
Rev.: 01

Page: 15 of 128

Measurement Data

An initial pre-scan was performed on the live and neutral lines with peak detector.

Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission were detected.





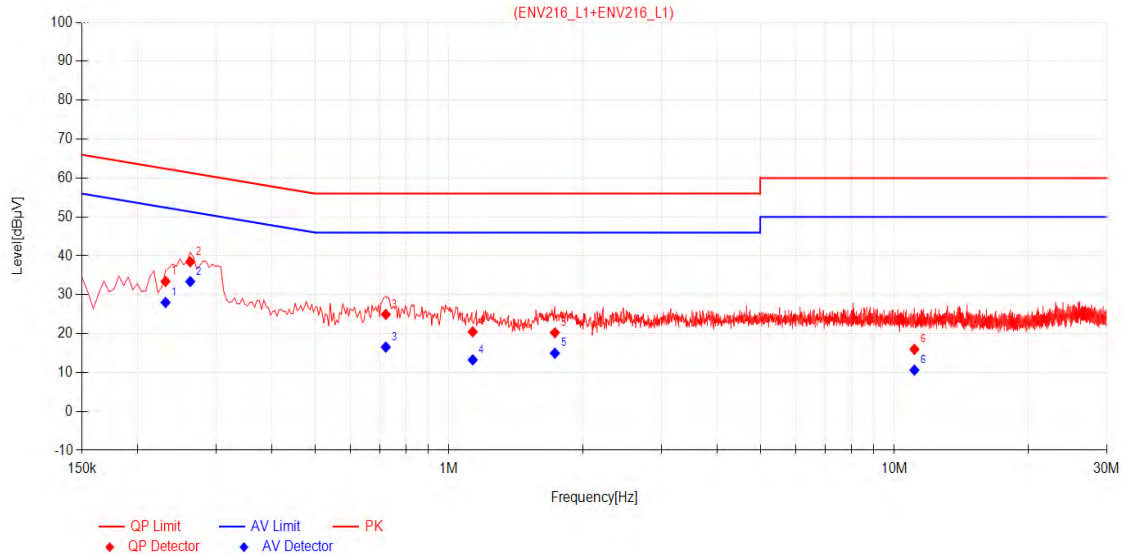
SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250400030901

Rev.: 01

Page: 16 of 128

Phase: Neutral



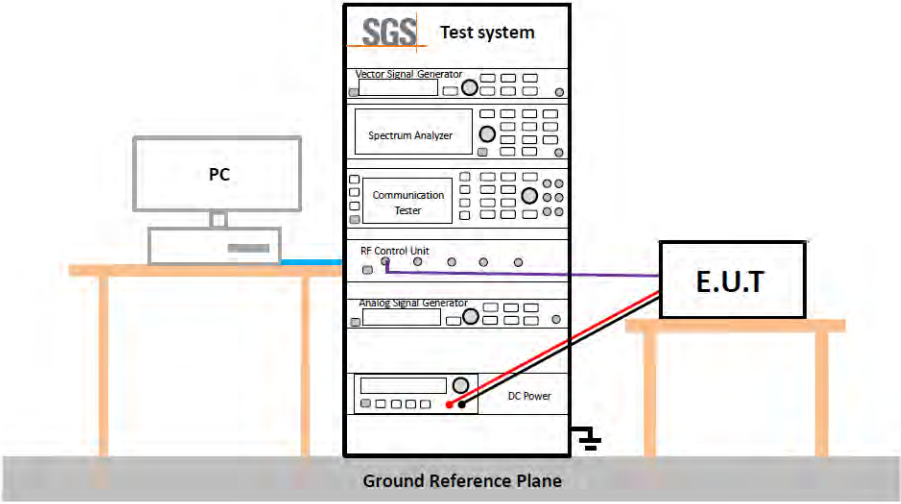
Final Data List

NO.	Frequency [MHz]	Factor [dB]	QP Reading [dBμV]	QP Value [dBμV]	QP Limit [dBμV]	QP Margin [dB]	AV Reading [dBμV]	AV Value [dBμV]	AV Limit [dBμV]	AV Margin [dB]	Verdict
1	0.2310	10.07	23.36	33.43	62.41	28.98	17.94	28.01	52.41	24.40	PASS
2	0.2625	10.07	28.39	38.46	61.35	22.89	23.32	33.39	51.35	17.96	PASS
3	0.7215	10.06	14.89	24.95	56.00	31.05	6.47	16.53	46.00	29.47	PASS
4	1.1310	9.94	10.52	20.46	56.00	35.54	3.31	13.25	46.00	32.75	PASS
5	1.7295	9.87	10.37	20.24	56.00	35.76	5.10	14.97	46.00	31.03	PASS
6	11.0985	9.82	6.15	15.97	60.00	44.03	0.80	10.62	50.00	39.38	PASS

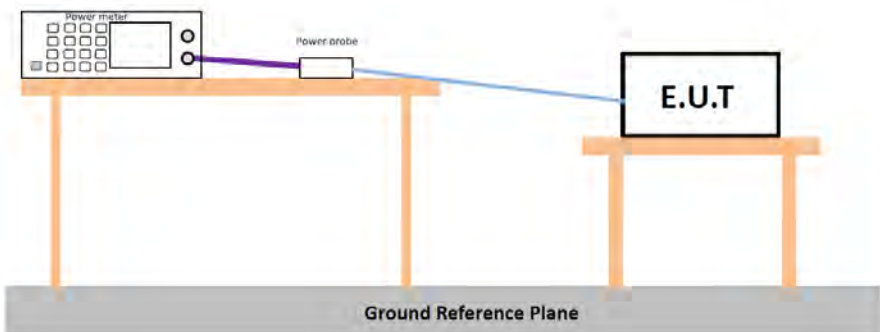
Remark:

1. The following Quasi-Peak and Average measurements were performed on the EUT:
2. Value = Reading[dBμV] + Factor(Lisn factor[dB] + cable loss[dB]).
3. Margin = Limit[dBμV] – Value[dBμV]

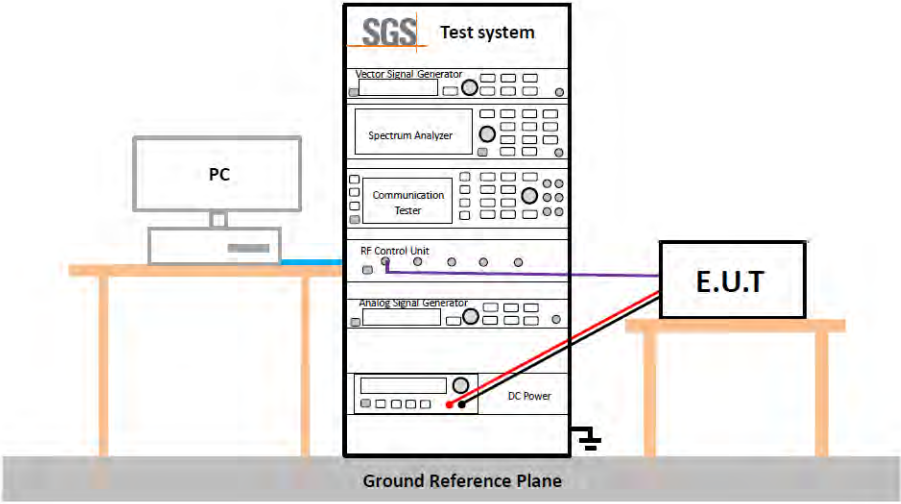
5.3 Duty Cycle

Test Requirement:	ANSI C63.10 :2020 Section 11.6
Test Method:	ANSI C63.10 :2020 Section 11.6
Test Setup:	
Instruments Used:	Refer to section 3 for details
Test Mode:	Transmitting with GFSK modulation.
Limit:	No restriction limits
Test Results:	For Report Purpose
The detailed test data see: Appendix	

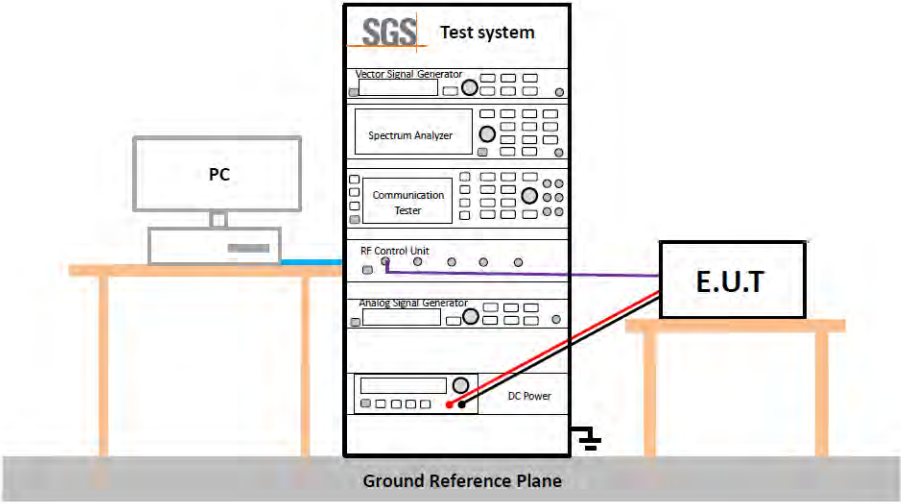
5.4 Conducted Output Power

Test Requirement:	47 CFR Part 15C Section 15.247 (b)(3)
Test Method:	ANSI C63.10 :2020 Section11.9
Test Setup:	 The diagram illustrates the test setup for conducted output power measurement. It shows a power meter connected to a power probe, which is connected to the E.U.T. (Equipment Under Test). The setup is on a ground reference plane.
Test Instruments:	Refer to section 3 for details
Test Mode:	Transmitting with GFSK modulation.
Limit:	30dBm
Test Results:	Pass
The detailed test data see: Appendix	

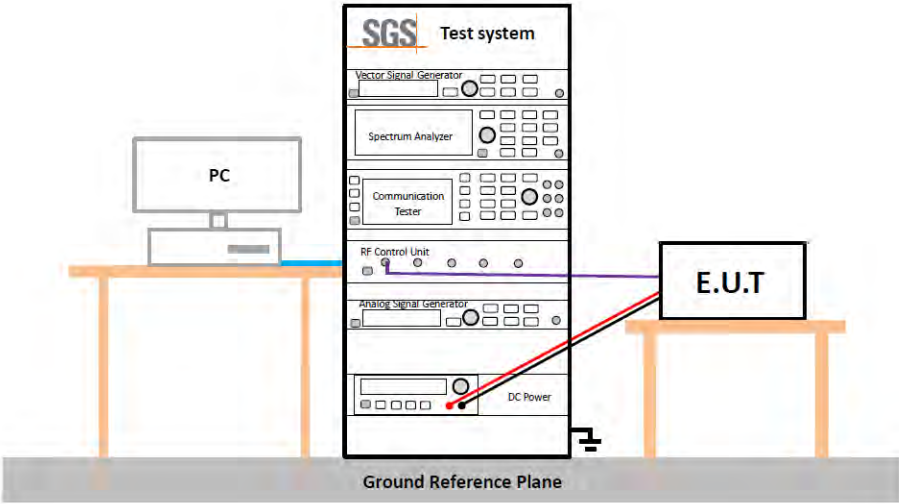
5.5 DTS (6 dB) Bandwidth & 99% Occupied Bandwidth

Test Requirement:	47 CFR Part 15C Section 15.247 (a)(2)
Test Method:	ANSI C63.10: 2020 Section 11.8 / 6.9
Test Setup:	
Instruments Used:	Refer to section 3 for details
Test Mode:	Transmitting with GFSK modulation.
Limit:	≥ 500 kHz for DTS Bandwidth
Test Results:	Pass
The detailed test data see: Appendix	

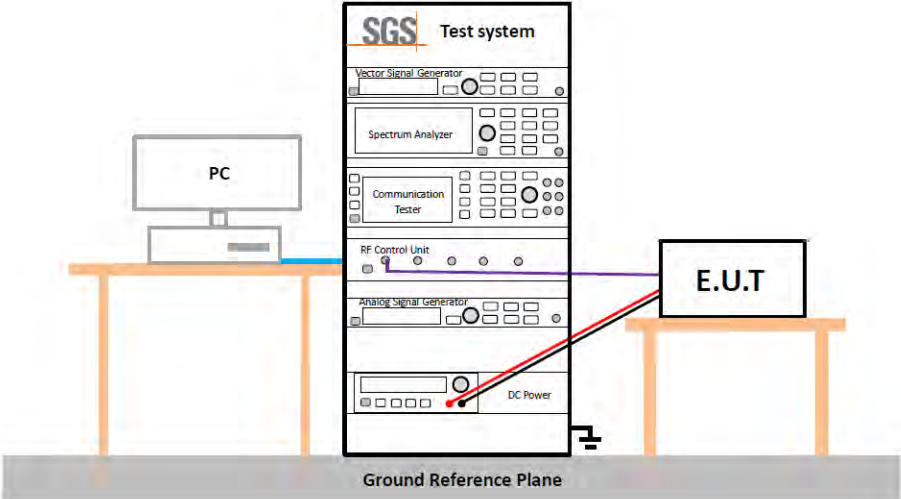
5.6 Power Spectral Density

Test Requirement:	47 CFR Part 15C Section 15.247 (e)
Test Method:	ANSI C63.10 :2020 Section 11.10
Test Setup:	
Test Instruments:	Refer to section 3 for details
Test Mode:	Transmitting with GFSK modulation.
Limit:	$\leq 8.00\text{dBm}/3\text{kHz}$
Test Results:	Pass
The detailed test data see: Appendix	

5.7 Band-edge for RF Conducted Emissions

Test Requirement:	47 CFR Part 15C Section 15.247 (d)
Test Method:	ANSI C63.10: 2020 Section 11.12
Test Setup:	
Instruments Used:	Refer to section 3 for details
Test Mode:	Transmitting with GFSK modulation.
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.
Test Results:	Pass
The detailed test data see: Appendix	

5.8 RF Conducted Spurious Emissions

Test Requirement:	47 CFR Part 15C Section 15.247 (d)
Test Method:	ANSI C63.10: 2020 Section 11.11
Test Setup:	
Instruments Used:	Refer to section 3 for details
Test Mode:	Transmitting with GFSK modulation.
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.
Test Results:	Pass
The detailed test data see: Appendix	

5.9 Radiated Spurious Emissions

Test Requirement:	47 CFR Part 15C Section 15.209 and 15.205				
Test Method:	ANSI C63.10 :2020 Section 11.12				
Test Site:	Measurement Distance: 3m (Semi-Anechoic Chamber)				
Test Frequency:	9kHz ~ 25GHz				
Limit:	Frequency	Field strength (microvolt/meter)	Limit (dBuV/m)	Remark	Measurement distance (m)
	0.009MHz-0.490MHz	2400/F(kHz)	-	-	300
	0.490MHz-1.705MHz	24000/F(kHz)	-	-	30
	1.705MHz-30MHz	30	-	-	30
	30MHz-88MHz	100	40.0	Quasi-peak	3
	88MHz-216MHz	150	43.5	Quasi-peak	3
	216MHz-960MHz	200	46.0	Quasi-peak	3
	960MHz-1GHz	500	54.0	Quasi-peak	3
	Above 1GHz	500	54.0	Average	3
Remark: 15.35(b), Unless otherwise specified, the limit on peak radio frequency emissions is 20dB above the maximum permitted average emission limit applicable to the equipment under test. This peak limit applies to the total peak emission level radiated by the device.					

Test Setup:

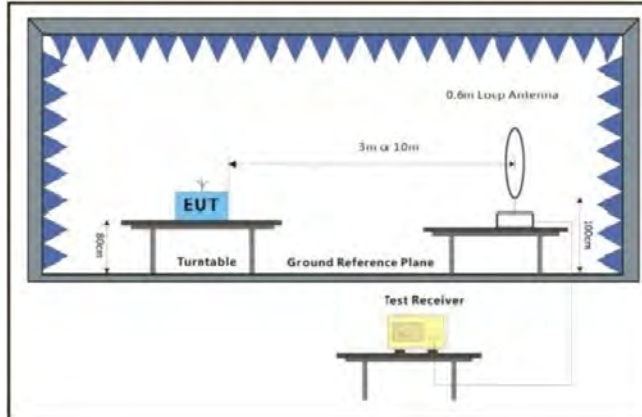


Figure 1. Below 30MHz

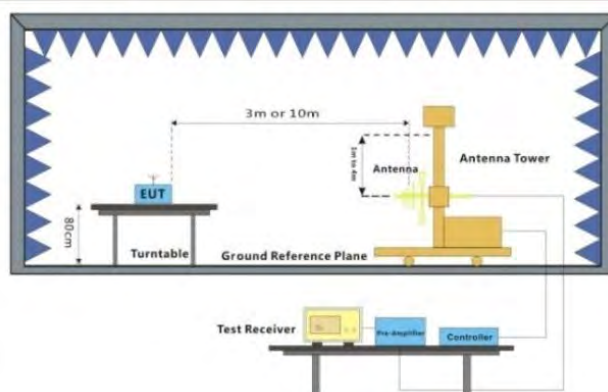


Figure 2. 30MHz to 1GHz

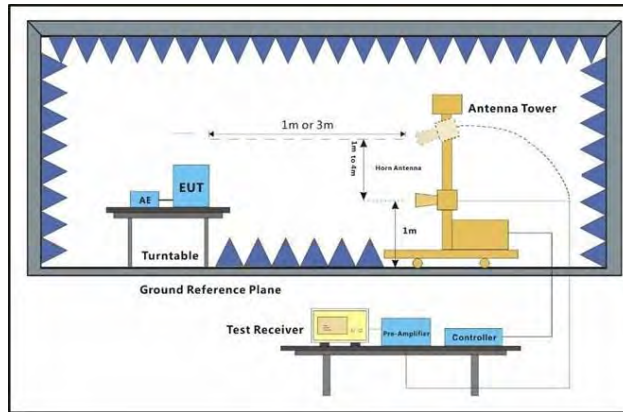


Figure 3. Above 1 GHz

Test Procedure:	- For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation. - For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation (Distance from antenna to EUT is 1m for measurements >18GHz). - The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. - The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. - For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading. - The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. - Test the EUT in the lowest channel, the middle channel, the Highest channel. - The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, And found the X axis positioning which it is worse case. - Repeat above procedures until all frequencies measured was complete. - The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line was not reported - The disturbance above 18GHz was very low, and the harmonics were the highest point could be found when testing, so only the harmonics had been displayed. - At a measurement distance of 1 meter the limit line was increased by $20 \cdot \log(3/1) = 9.54 \text{ dB}$.
Test Configuration:	Measurements below 30MHz • RBW = 10 kHz • VBW = 30 kHz • Detector = Peak & Average & Quasi-peak • Trace mode = max hold Measurements Below 1000MHz • RBW = 120 kHz • VBW = 300 kHz



SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250400030901

Rev.: 01

Page: 25 of 128

	• Detector = Quasi-peak • Trace mode = max hold Peak Measurements Above 1000 MHz • RBW = 1 MHz • VBW $\geq$ 3 MHz • Detector = Peak • Sweep time = auto • Trace mode = max hold Average Measurements Above 1000MHz • RBW = 1 MHz • VBW = 10 Hz, when duty cycle is no less than 98 percent. • VBW $\geq$ 1/T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.
Exploratory Test Mode:	Transmitting with GFSK modulation. Charge + Transmitting mode.
Final Test Mode:	Transmitting with GFSK modulation. Pretest the EUT at Charge + Transmitting mode, For below 1GHz part, through pre-scan all channels, but only the worst case is recorded in the report.
Instruments Used:	Refer to section 3 for details
Test Results:	Pass
The detailed test data see: Appendix	

5.10 Restricted bands around fundamental frequency

Test Requirement:	47 CFR Part 15C Section 15.209 and 15.205		
Test Method:	ANSI C63.10: 2020 Section 11.12		
Test Site:	Measurement Distance: 3m (Semi-Anechoic Chamber)		
Limit:	Frequency	Limit (dBuV/m)	Remark
	30MHz-88MHz	40.0	Quasi-peak
	88MHz-216MHz	43.5	Quasi-peak
	216MHz-960MHz	46.0	Quasi-peak
	960MHz-1GHz	54.0	Quasi-peak
	Above 1GHz	54.0	Average Value
		74.0	Peak Value

Test Setup:

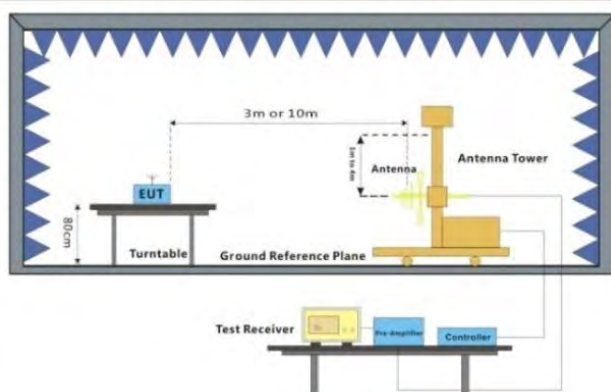


Figure 1. 30MHz to 1GHz

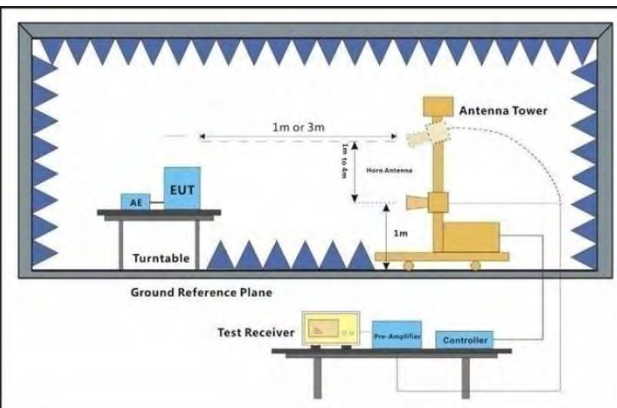


Figure 2. Above 1 GHz

Test Procedure:

- For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- Place a marker at the end of the restricted band closest to the transmit frequency to show compliance. Also measure any emissions in the restricted bands. Save the spectrum analyzer plot. Repeat for each power and modulation for lowest and highest channel



SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250400030901

Rev.: 01

Page: 27 of 128

	h. Test the EUT in the lowest channel , the Highest channel i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, And found the X axis positioning which it is worse case. j. Repeat above procedures until all frequencies measured was complete.
Test Configuration:	Measurements Below 1000MHz • RBW = 120 kHz • VBW = 300 kHz • Detector = Quasi-peak • Trace mode = max hold Peak Measurements Above 1000 MHz • RBW = 1 MHz • VBW $\geq$ 3 MHz • Detector = Peak • Sweep time = auto • Trace mode = max hold Average Measurements Above 1000MHz • RBW = 1 MHz • VBW = 10 Hz, when duty cycle is no less than 98 percent. • VBW $\geq$ 1/T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.
Exploratory Test Mode:	Transmitting with GFSK modulation. Charge + Transmitting mode.
Final Test Mode:	Transmitting with GFSK modulation. Pretest the EUT at Charge + Transmitting mode. Only the worst case is recorded in the report.
Instruments Used:	Refer to section 3 for details
Test Results:	Pass
The detailed test data see: Appendix	



SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250400030901

Rev.: 01

Page: 28 of 128

6 Photographs - Setup Photos

Refer to Appendix A.2 BLE Setup Photos.



SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250400030901

Rev.: 01

Page: 29 of 128

7 Appendix

1. Duty Cycle

1.1 Test Result

1.1.1 Ant1

Ant1							
Mode	TX Type	Frequency (MHz)	T _{on} (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
S8	SISO	2402	3.107	3.749	82.88	0.82	0.01
S2	SISO	2402	1.075	1.877	57.27	2.42	0.00
1M	SISO	2402	0.396	0.626	63.26	1.99	0.03
2M	SISO	2402	0.212	0.625	33.92	4.70	0.02

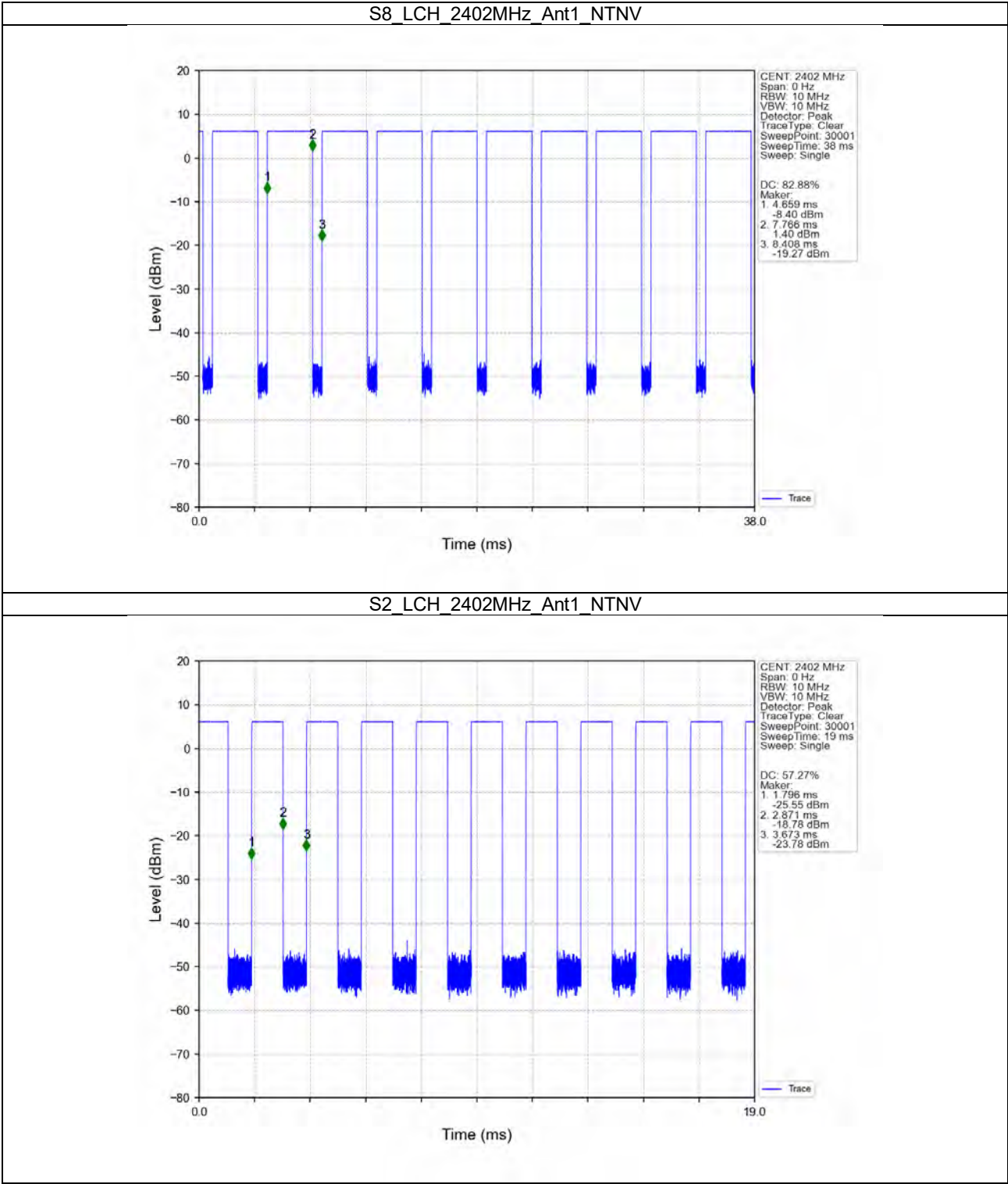


SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250400030901
Rev.: 01
Page: 30 of 128

1.2 Test Graph

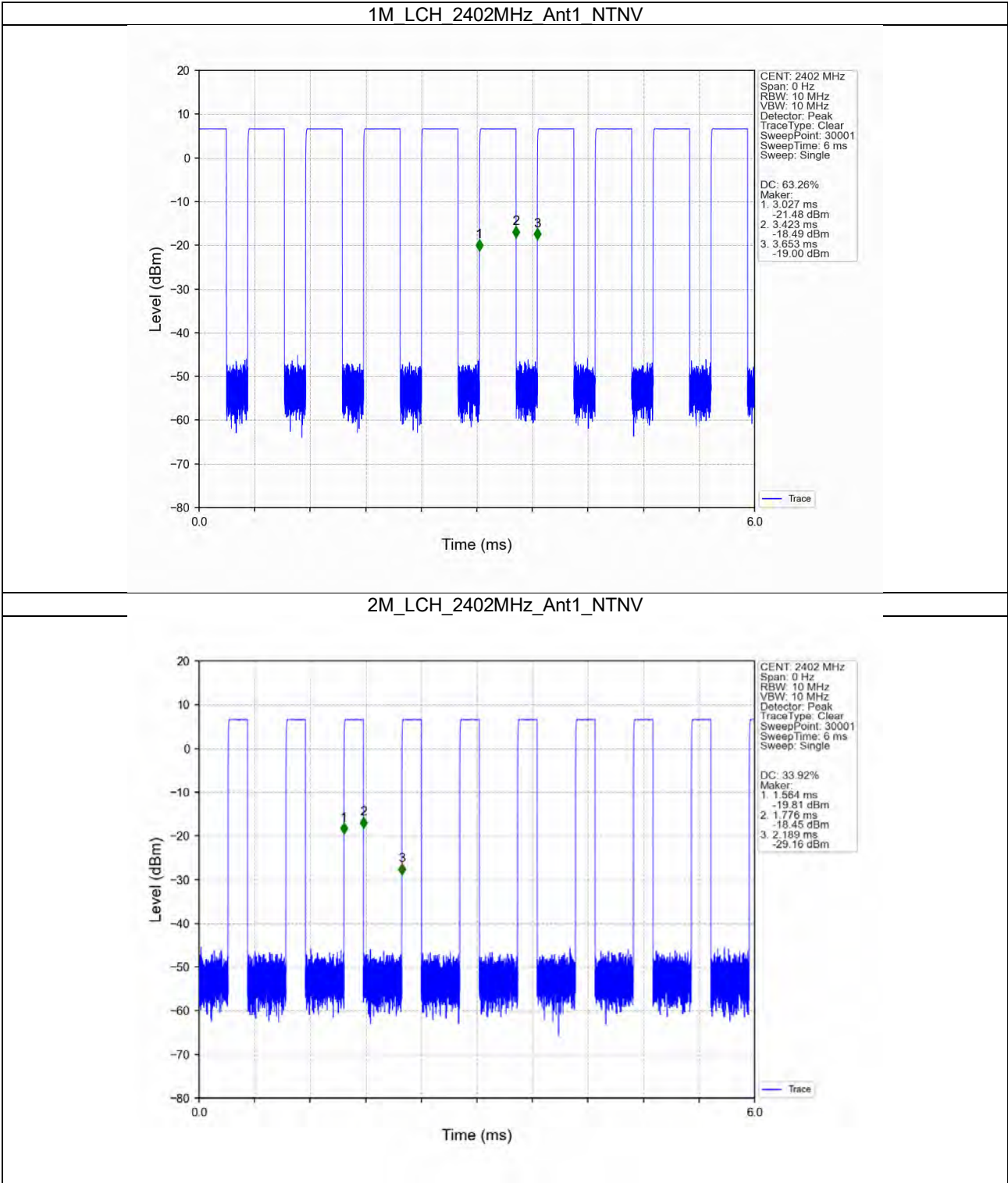
1.2.1 Ant1





SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250400030901
Rev.: 01
Page: 31 of 128





SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250400030901

Rev.: 01

Page: 32 of 128

2. Bandwidth

2.1 Test Result

2.1.1 OBW

Mode	TX Type	Frequency (MHz)	ANT	99% Occupied Bandwidth (MHz)		Verdict
				Result	Limit	
S8	SISO	2402	1	1.046	/	Pass
		2440	1	1.048	/	Pass
		2480	1	1.056	/	Pass
S2	SISO	2402	1	1.024	/	Pass
		2440	1	1.025	/	Pass
		2480	1	1.029	/	Pass
1M	SISO	2402	1	1.031	/	Pass
		2440	1	1.031	/	Pass
		2480	1	1.034	/	Pass
2M	SISO	2402	1	2.052	/	Pass
		2440	1	2.052	/	Pass
		2480	1	2.054	/	Pass

2.1.2 6dB BW

Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
S8	SISO	2402	1	0.628	≥ 0.5	Pass
		2440	1	0.627	≥ 0.5	Pass
		2480	1	0.631	≥ 0.5	Pass
S2	SISO	2402	1	0.681	≥ 0.5	Pass
		2440	1	0.682	≥ 0.5	Pass
		2480	1	0.687	≥ 0.5	Pass
1M	SISO	2402	1	0.725	≥ 0.5	Pass
		2440	1	0.725	≥ 0.5	Pass
		2480	1	0.726	≥ 0.5	Pass
2M	SISO	2402	1	1.193	≥ 0.5	Pass
		2440	1	1.196	≥ 0.5	Pass
		2480	1	1.191	≥ 0.5	Pass

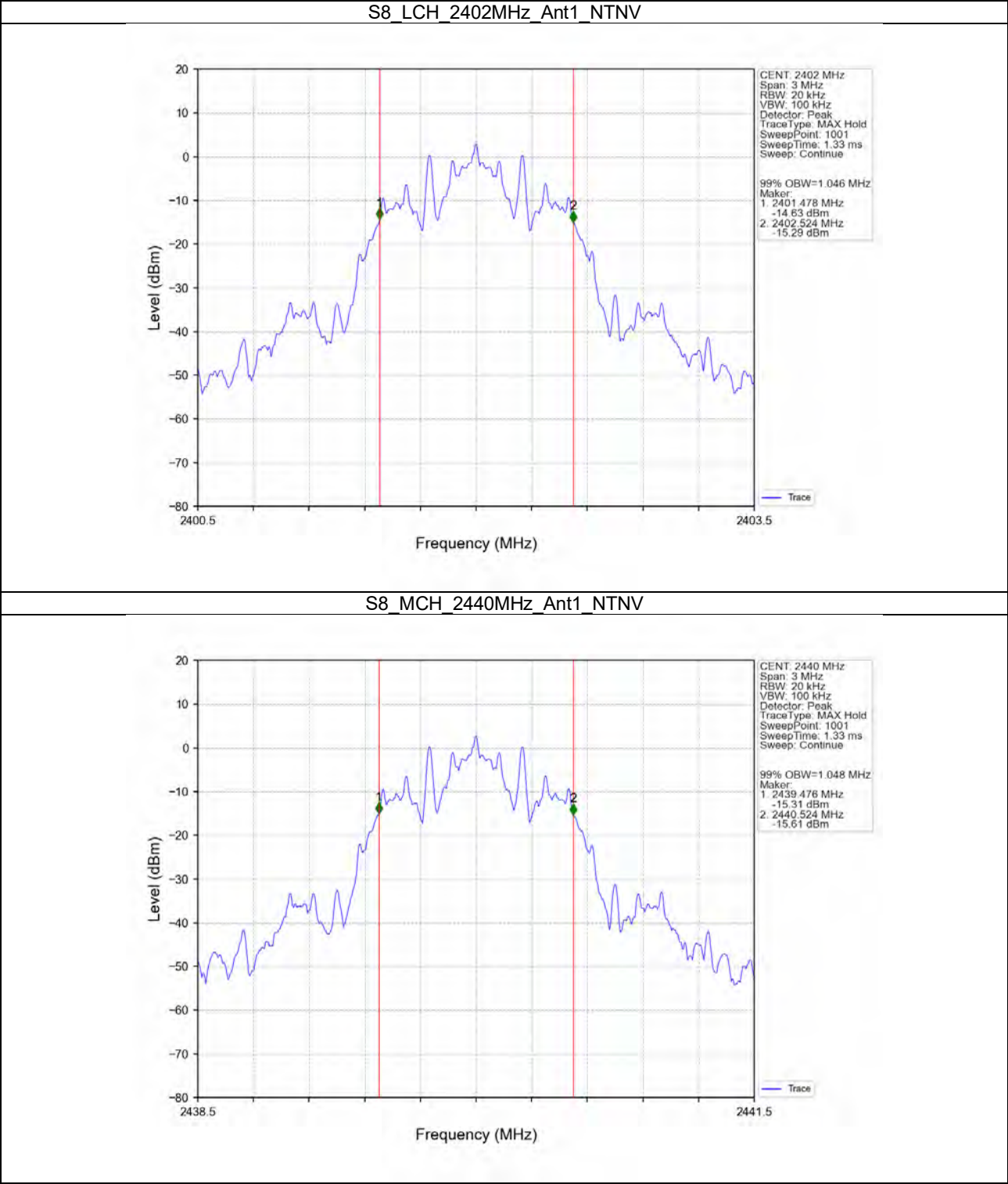


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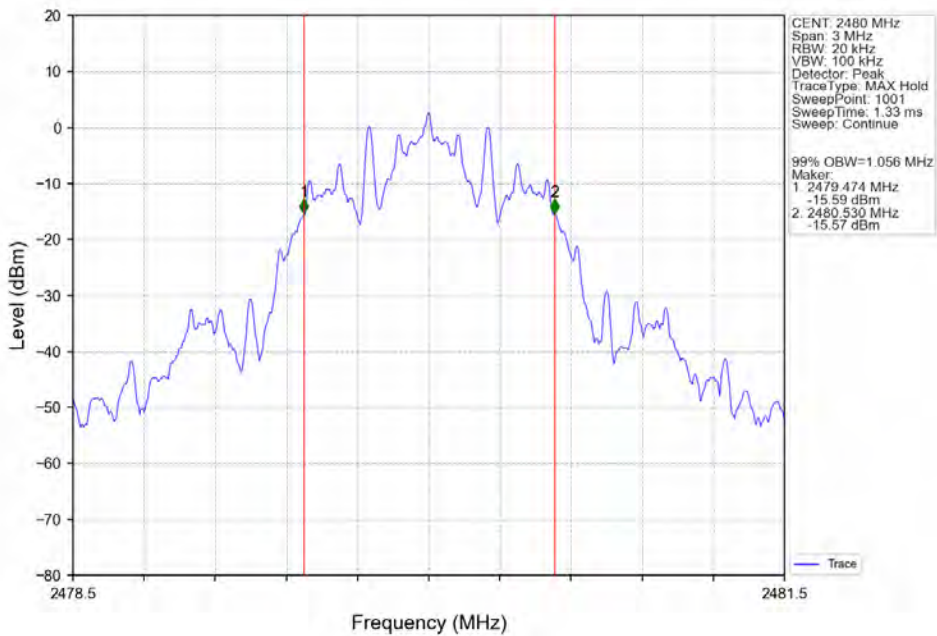
Report No.: SUCR250400030901
Rev.: 01
Page: 33 of 128

2.2 Test Graph

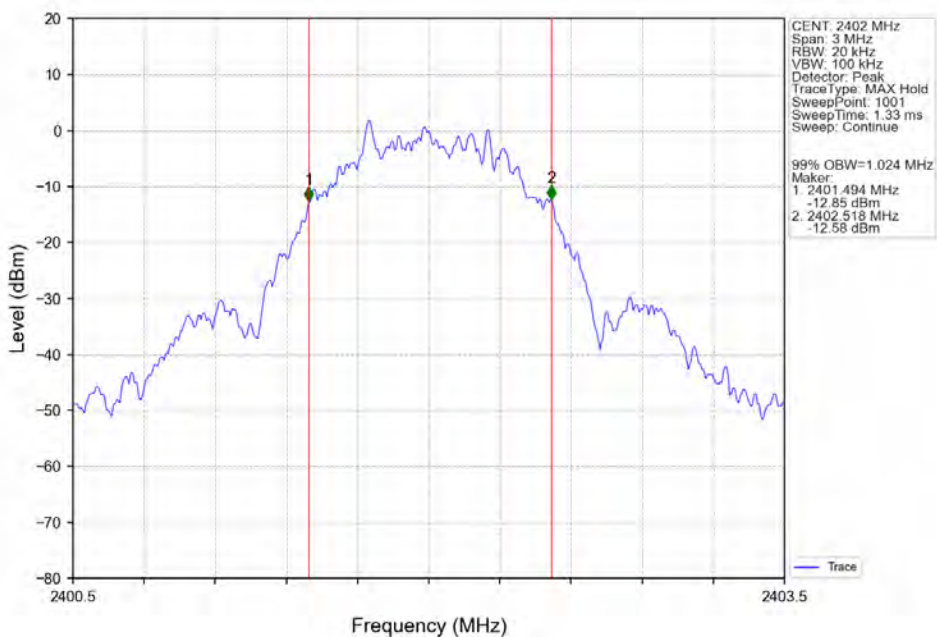
2.2.1 OBW



S8_HCH_2480MHz_Ant1_NTNV



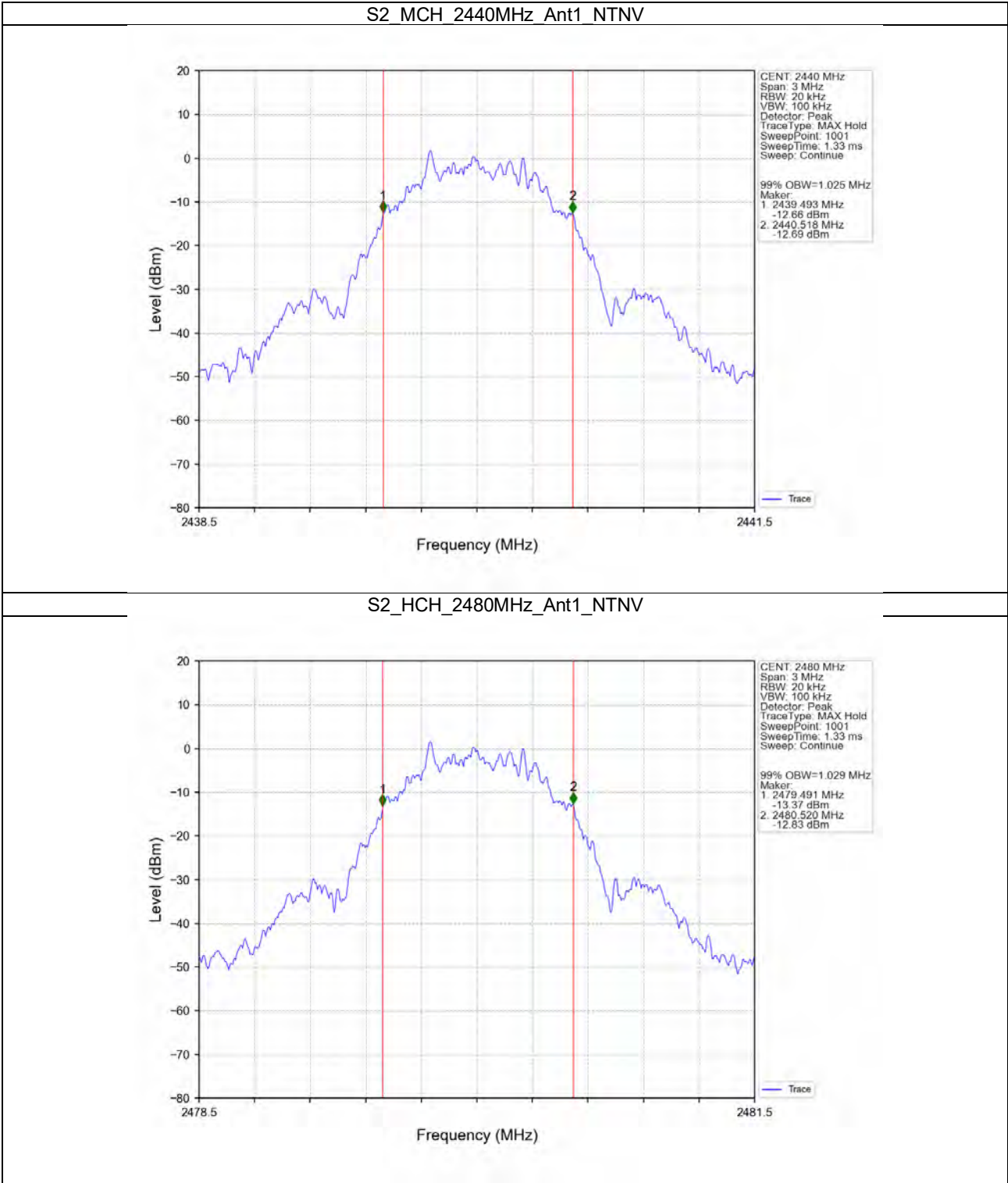
S2_LCH_2402MHz_Ant1_NTNV





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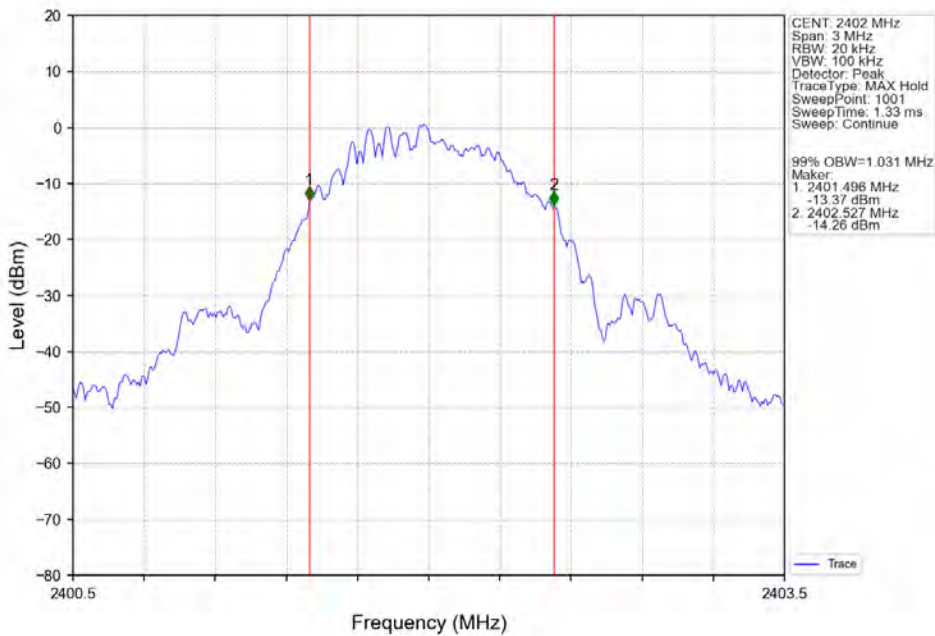
Report No.: SUCR250400030901
Rev.: 01
Page: 35 of 128



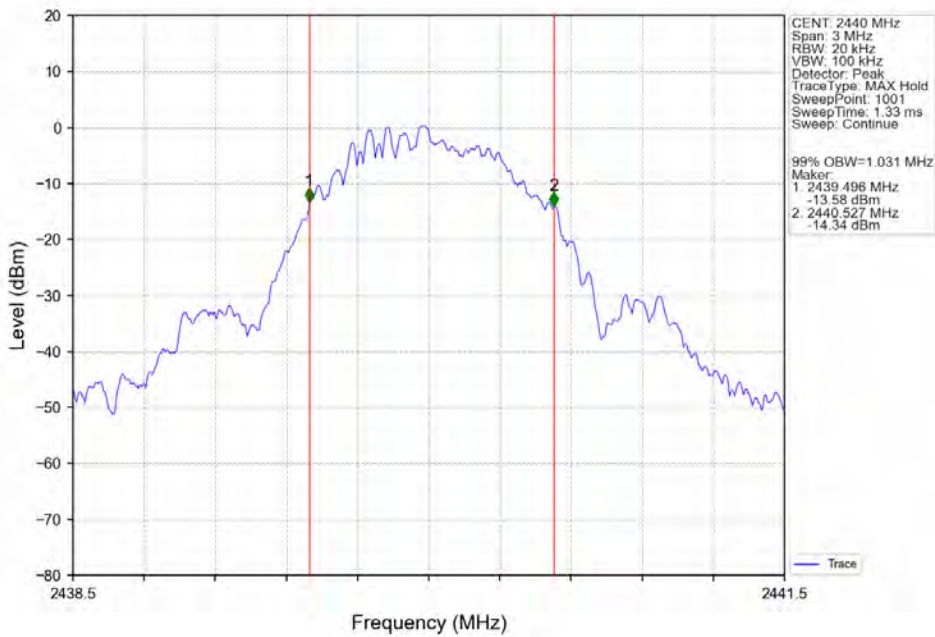
SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250400030901
 Rev.: 01
 Page: 36 of 128

1M LCH 2402MHz Ant1 NTN



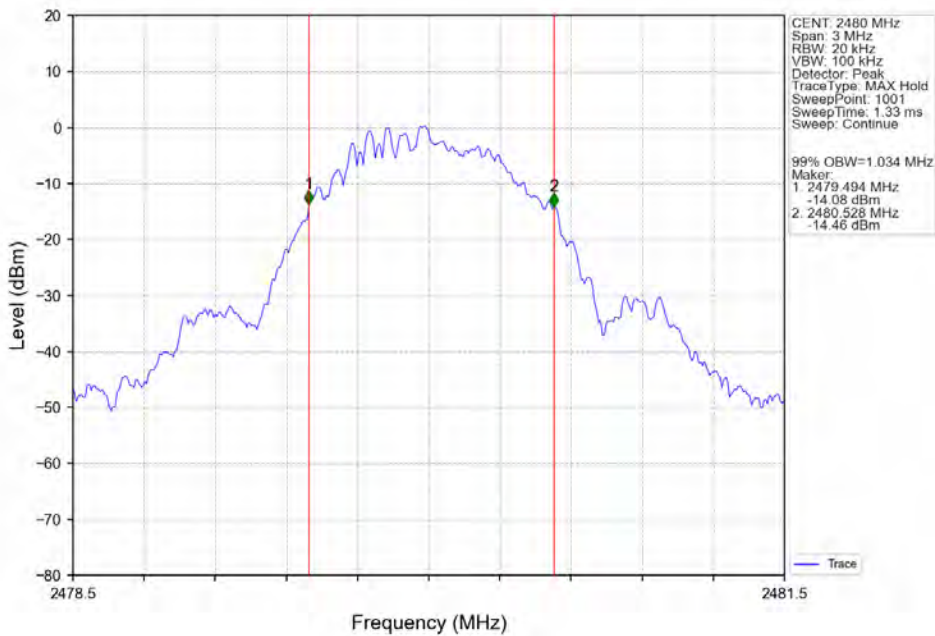
1M_MCH_2440MHz_Ant1_NTN



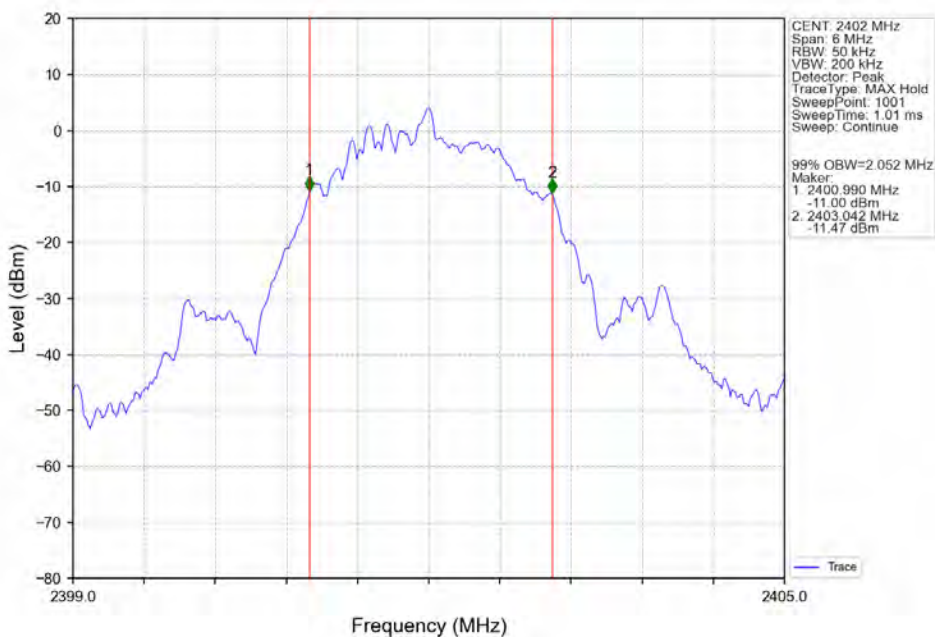
SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250400030901
 Rev.: 01
 Page: 37 of 128

1M_HCH_2480MHz_Ant1_NTNV



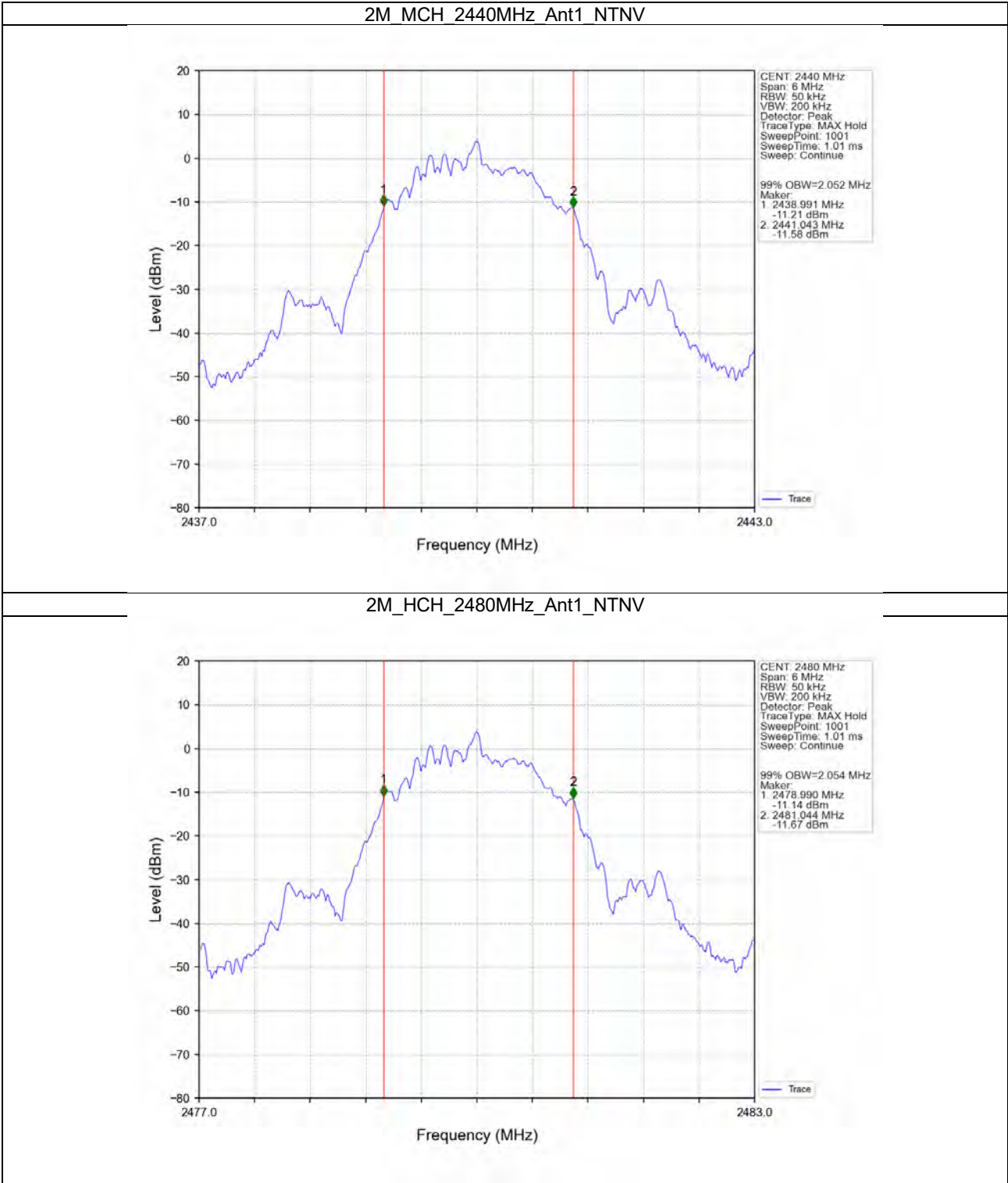
2M_LCH_2402MHz_Ant1_NTNV





SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250400030901
Rev.: 01
Page: 38 of 128

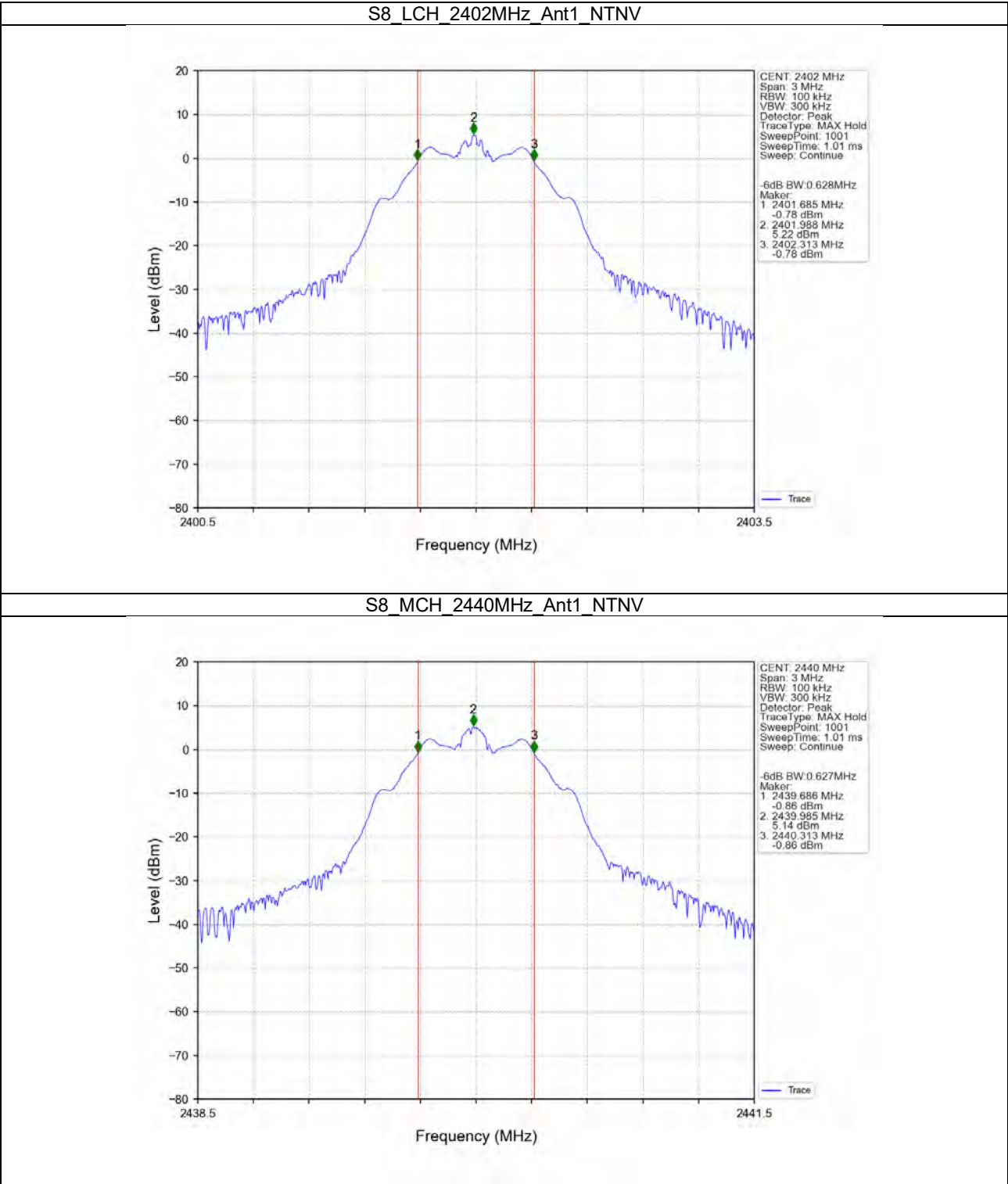




SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250400030901
Rev.: 01
Page: 39 of 128

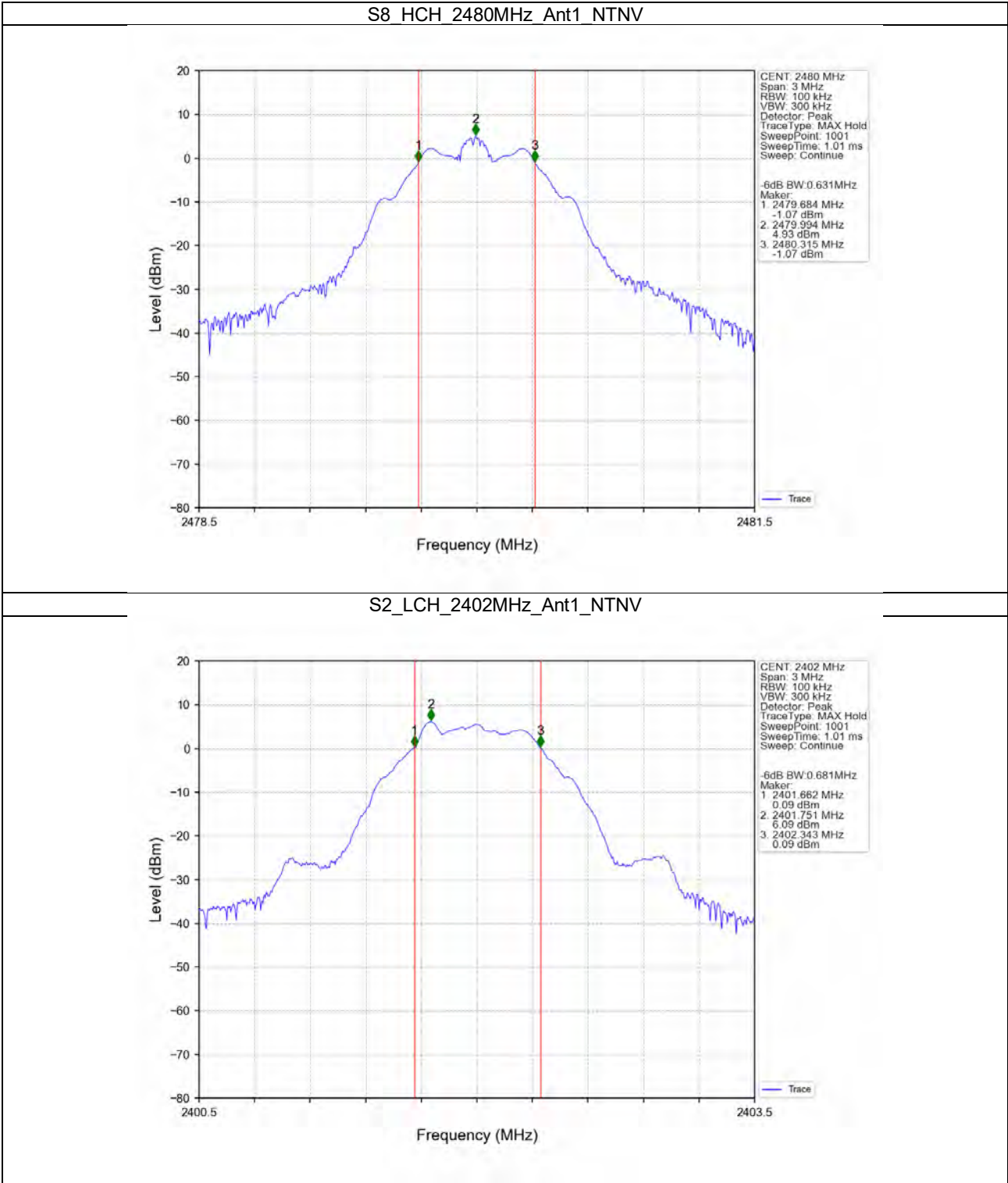
2.2.2 6dB BW





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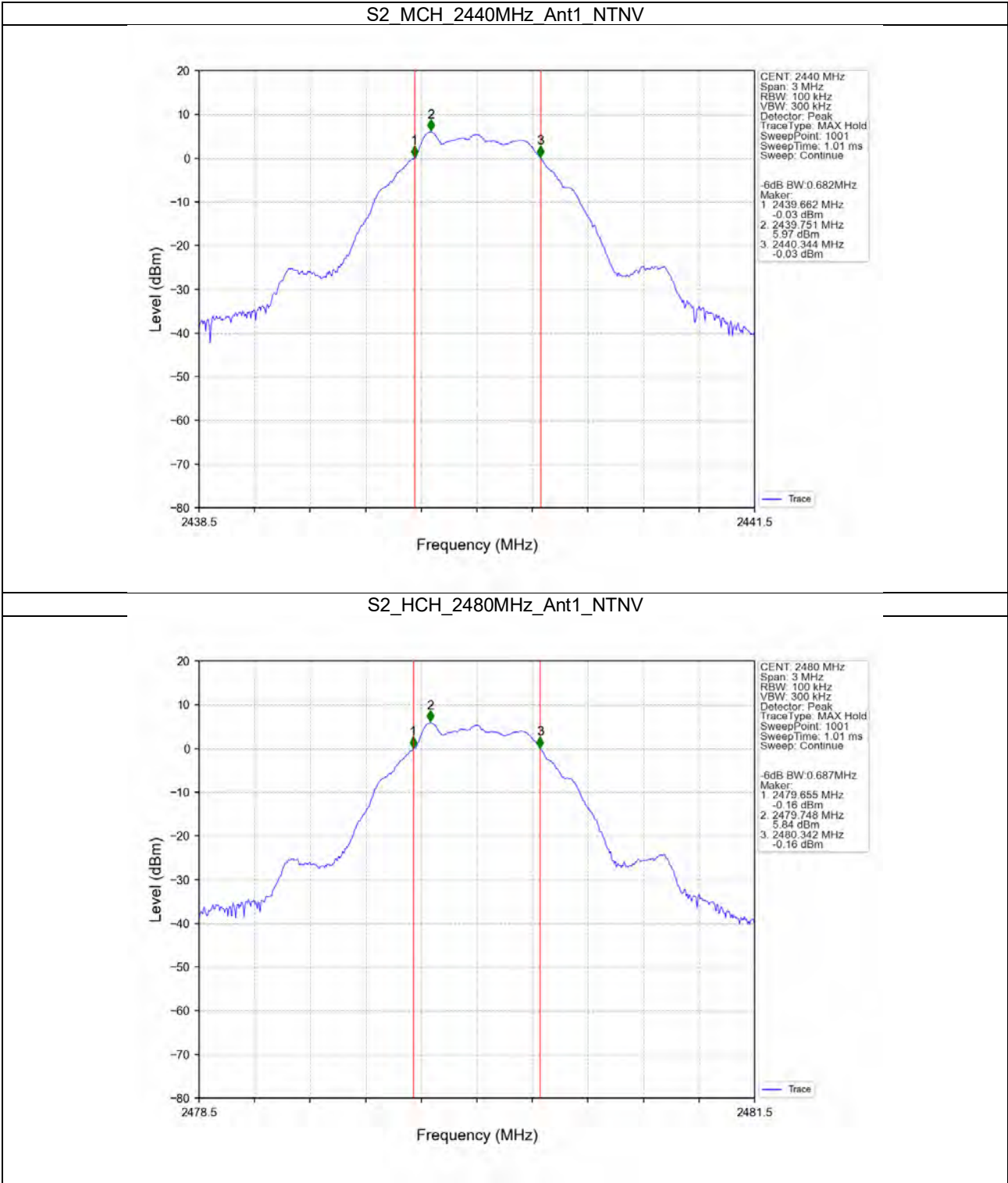
Report No.: SUCR250400030901
Rev.: 01
Page: 40 of 128





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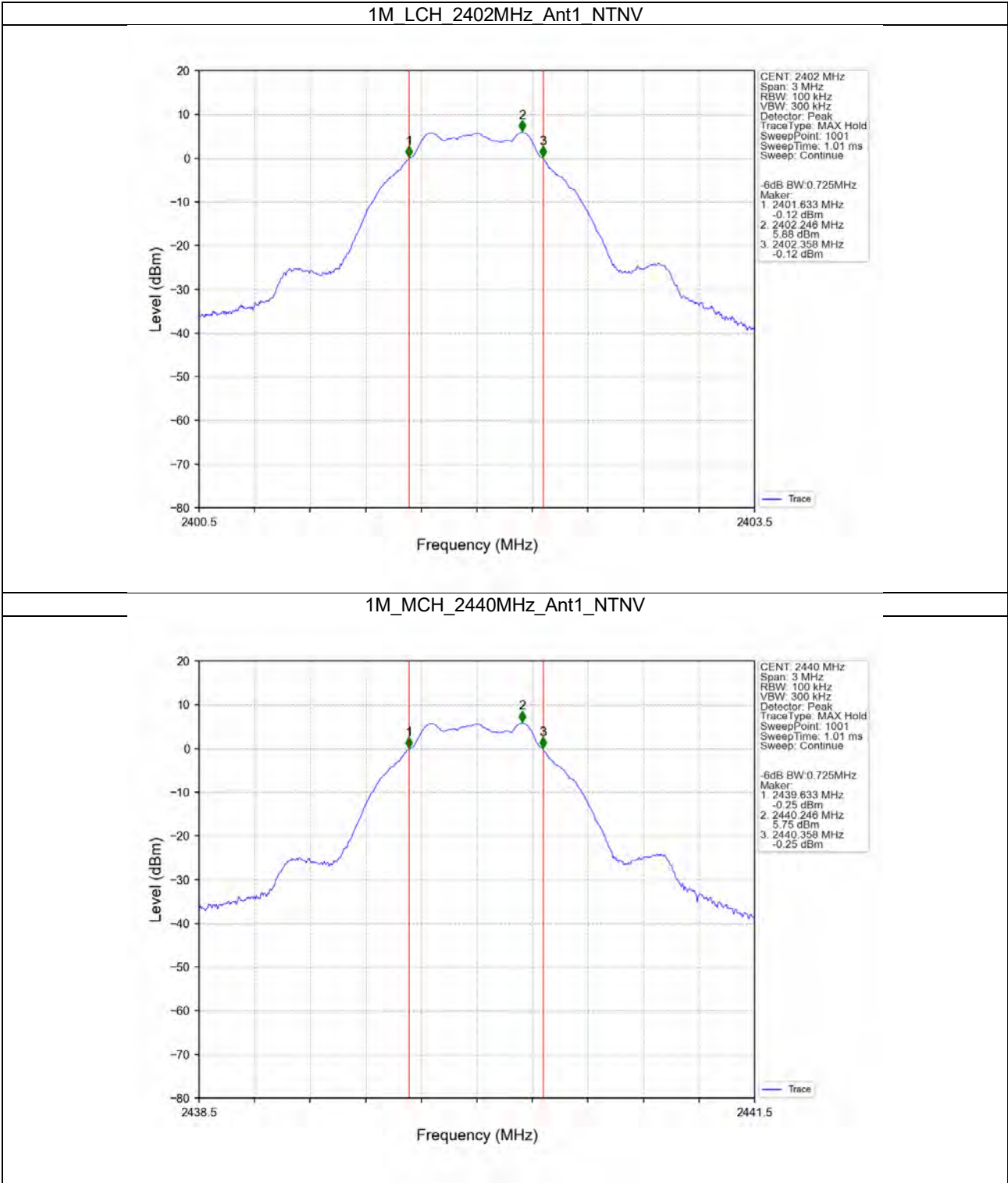
Report No.: SUCR250400030901
Rev.: 01
Page: 41 of 128





SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

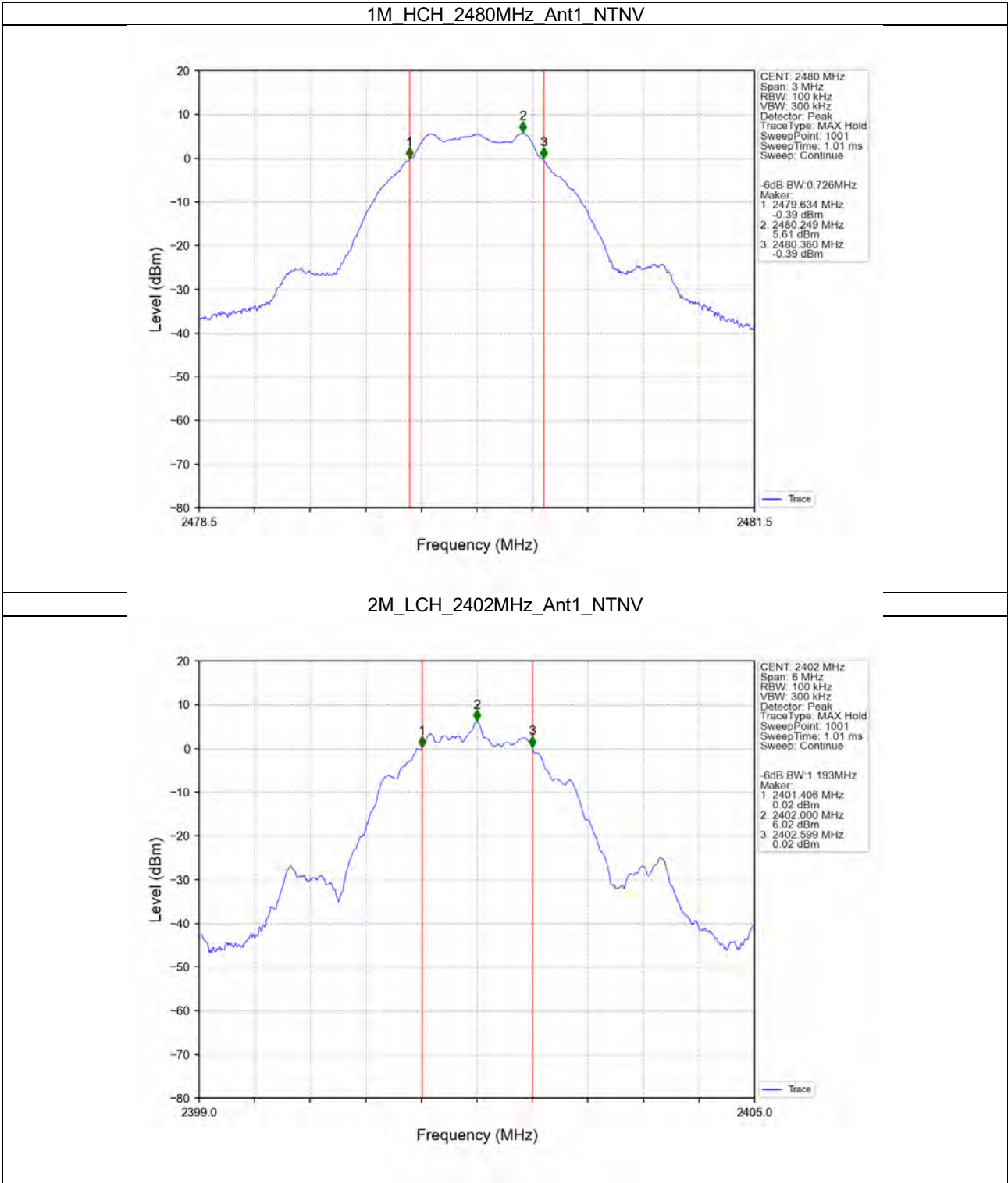
Report No.: SUCR250400030901
Rev.: 01
Page: 42 of 128





SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250400030901
Rev.: 01
Page: 43 of 128

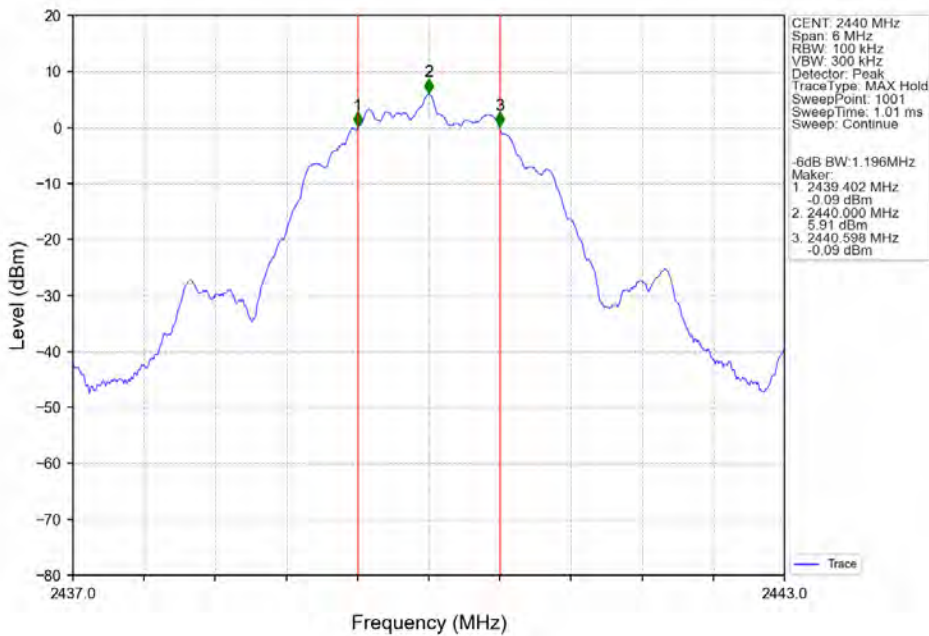




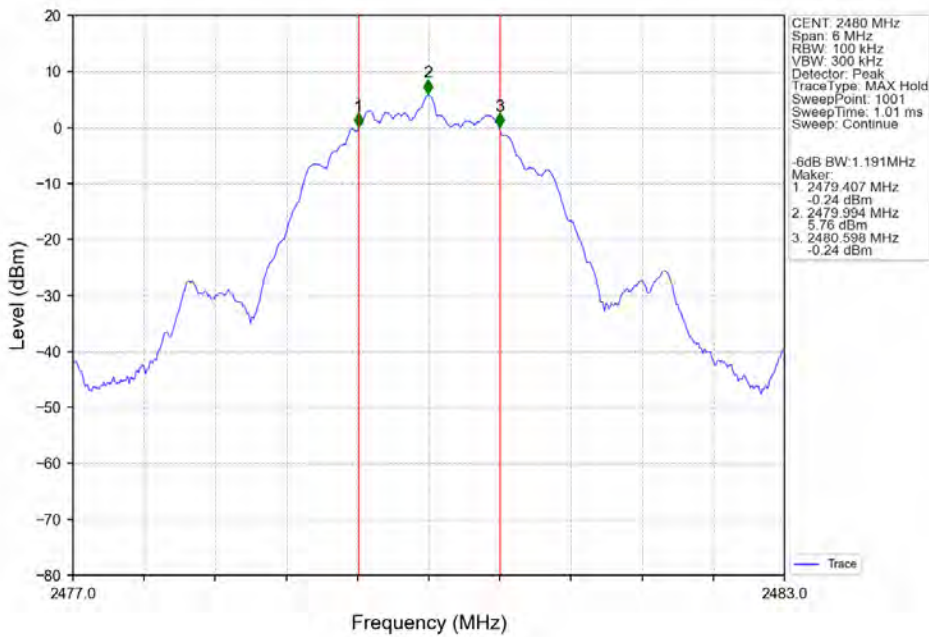
SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250400030901
Rev.: 01
Page: 44 of 128

2M MCH 2440MHz Ant1 NTNV



2M_HCH_2480MHz_Ant1_NTNV





SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250400030901

Rev.: 01

Page: 45 of 128

3. Maximum Conducted Output Power

3.1 Test Result

3.1.1 Power

Mode	TX Type	Frequency (MHz)	Maximum Average Conducted Output Power (dBm)		Verdict
			ANT1	Limit	
S8	SISO	2402	6.10	<=30	Pass
		2440	5.95	<=30	Pass
		2480	5.85	<=30	Pass
S2	SISO	2402	6.10	<=30	Pass
		2440	5.73	<=30	Pass
		2480	5.70	<=30	Pass
1M	SISO	2402	6.47	<=30	Pass
		2440	6.29	<=30	Pass
		2480	6.17	<=30	Pass
2M	SISO	2402	6.44	<=30	Pass
		2440	6.31	<=30	Pass
		2480	6.06	<=30	Pass
Note1: Antenna Gain: Ant1: 3.37dBi:					

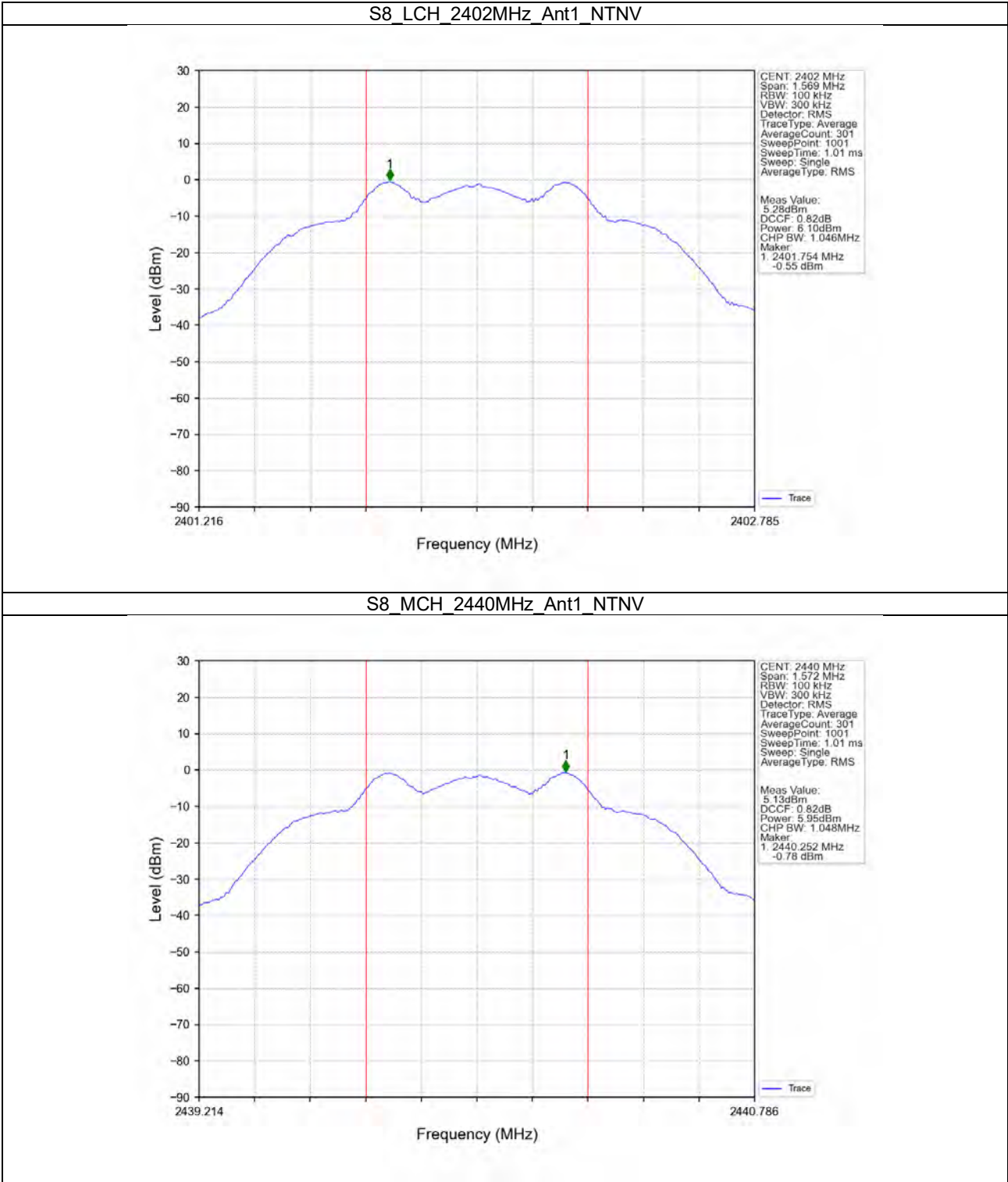


SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250400030901
Rev.: 01
Page: 46 of 128

3.2 Test Graph

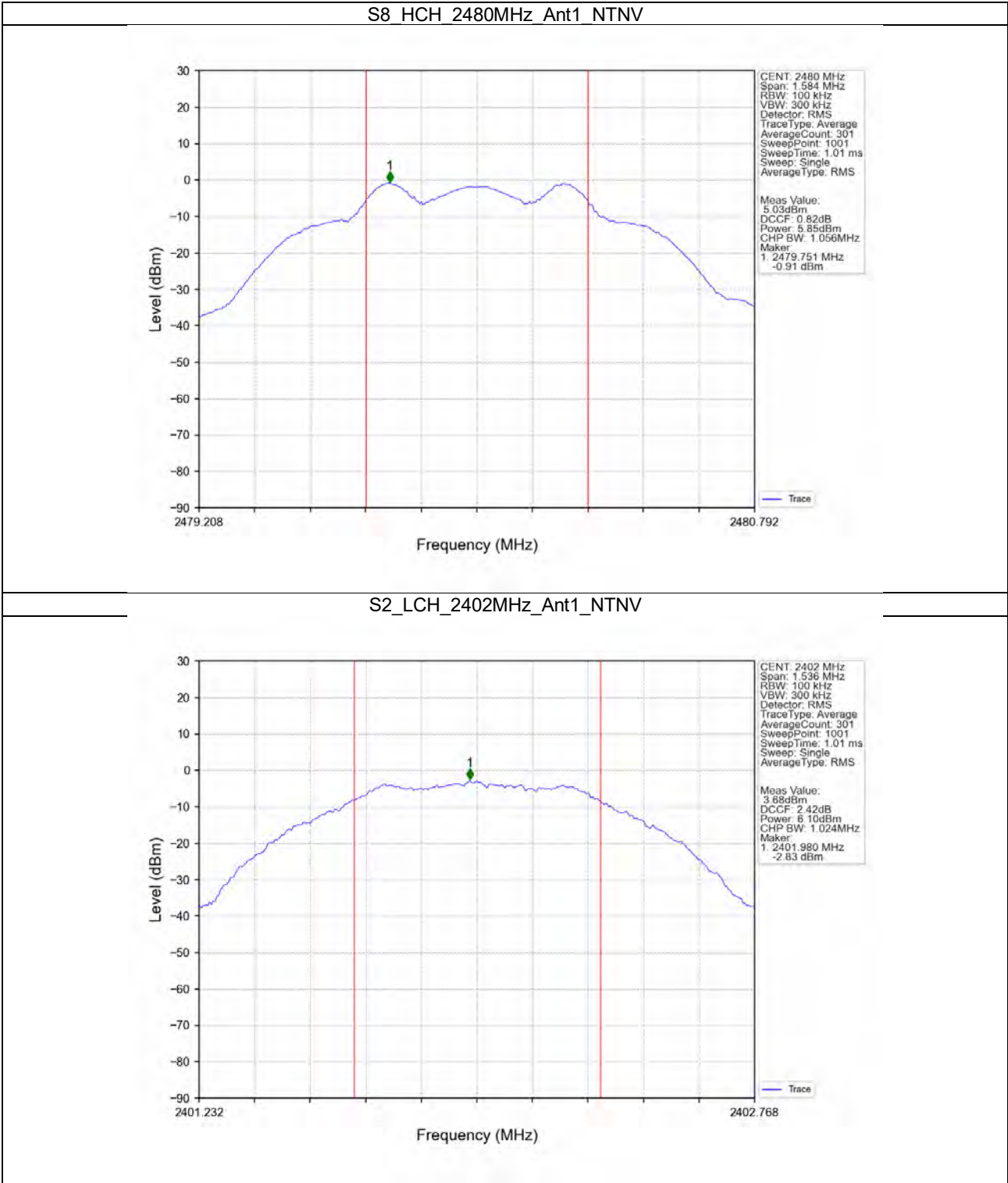
3.2.1 Power





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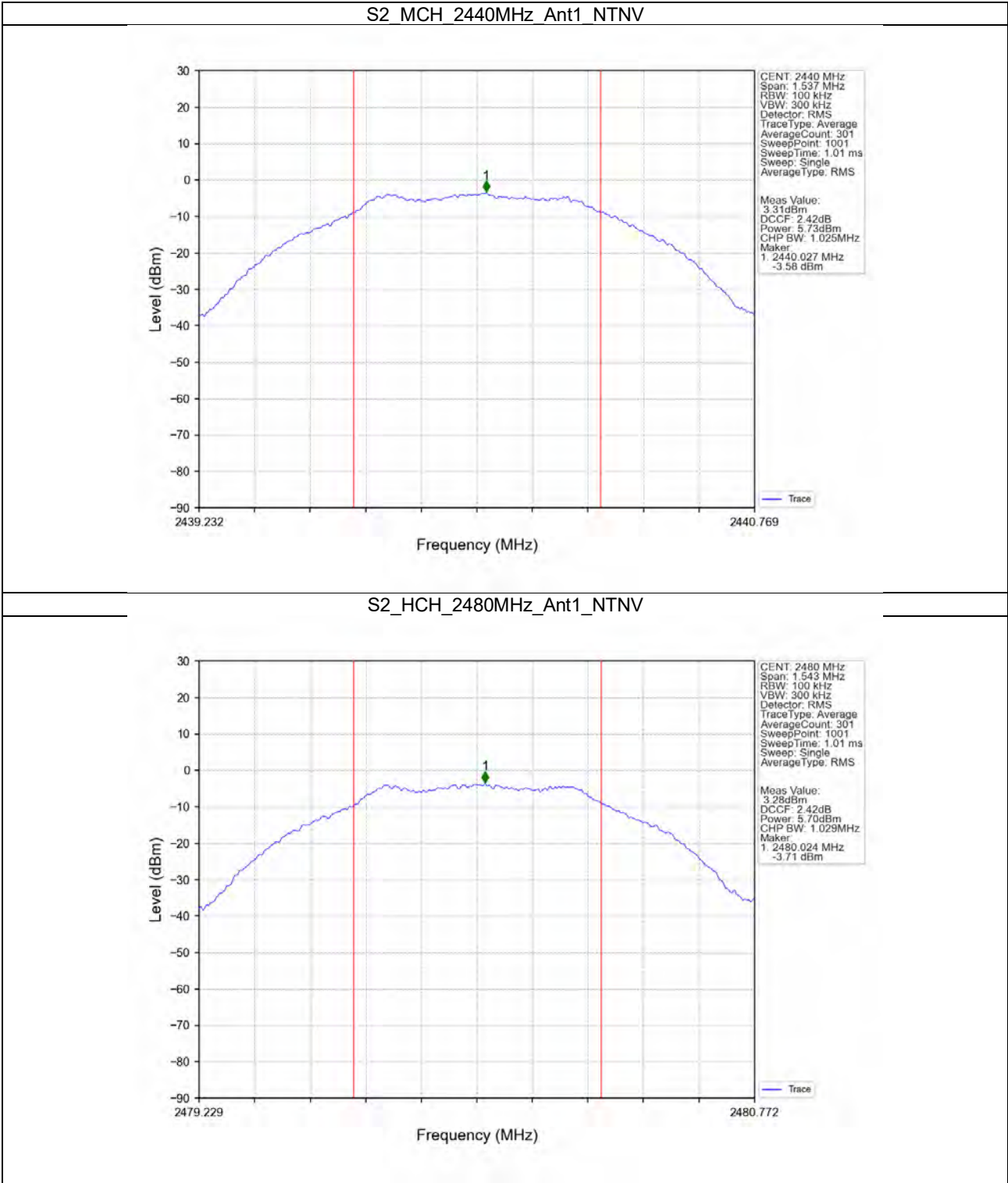
Report No.: SUCR250400030901
Rev.: 01
Page: 47 of 128





SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

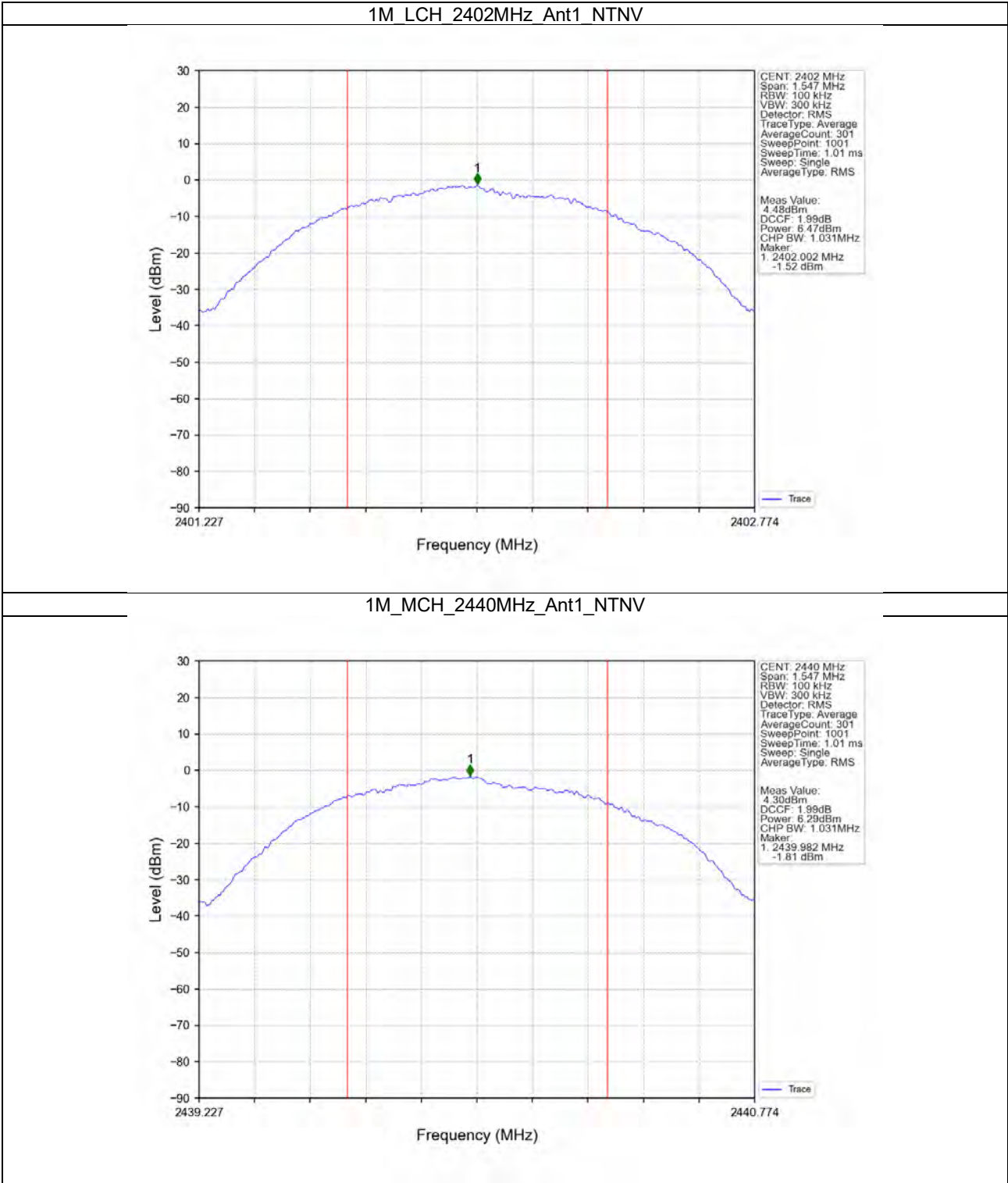
Report No.: SUCR250400030901
Rev.: 01
Page: 48 of 128





SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

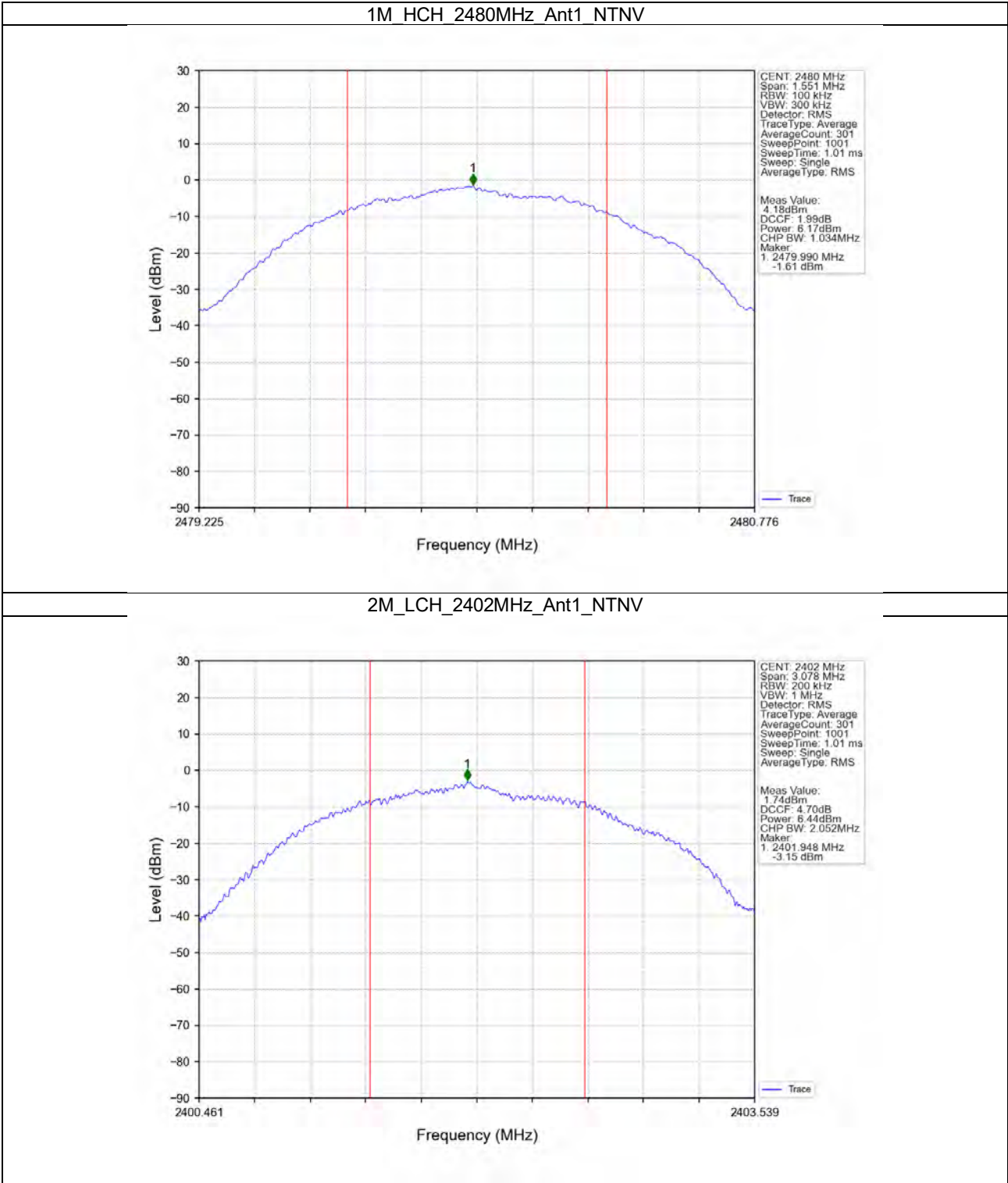
Report No.: SUCR250400030901
Rev.: 01
Page: 49 of 128





SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

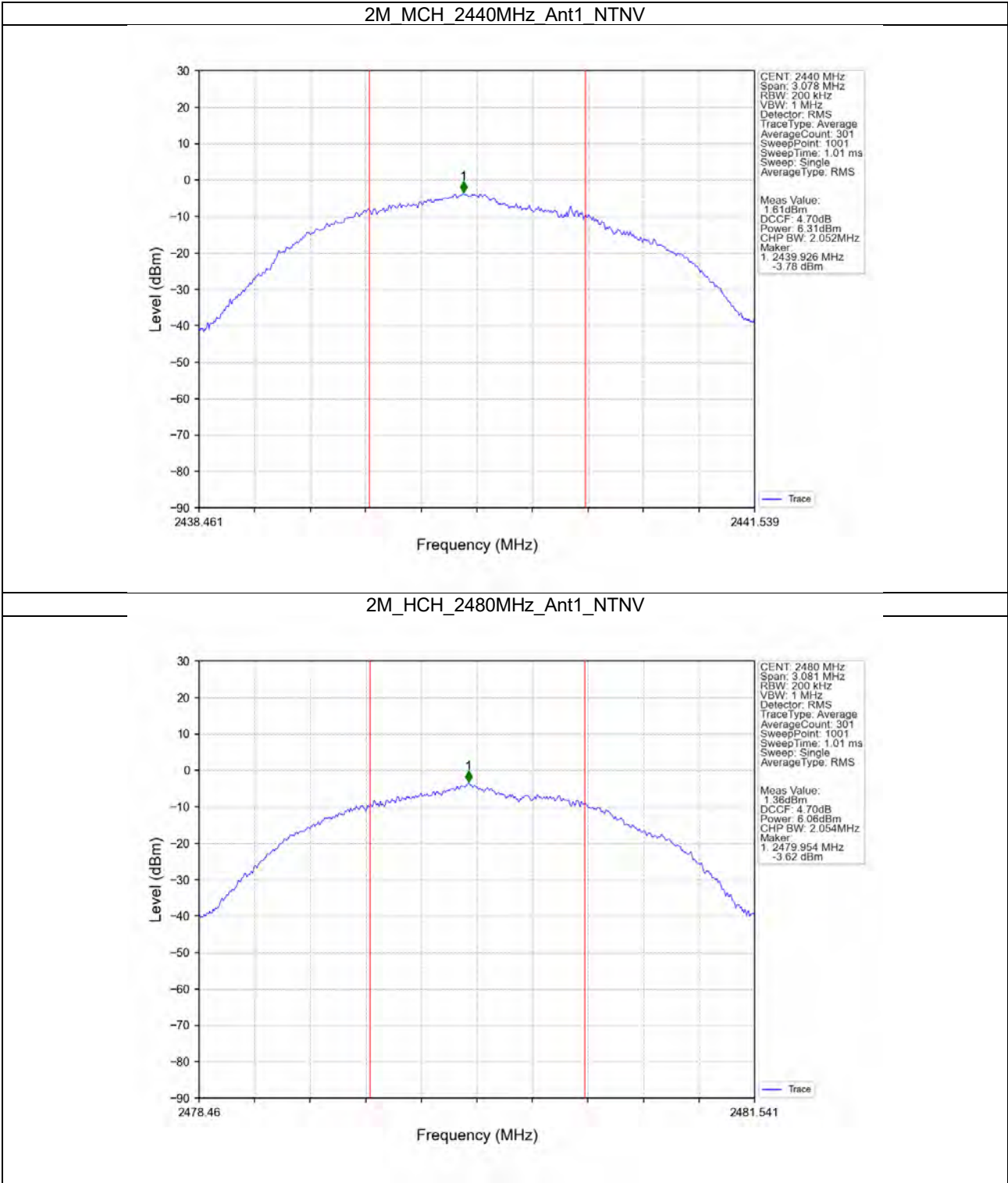
Report No.: SUCR250400030901
Rev.: 01
Page: 50 of 128





SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250400030901
Rev.: 01
Page: 51 of 128





SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250400030901
Rev.: 01
Page: 52 of 128

4. Maximum Power Spectral Density

4.1 Test Result

4.1.1 PSD

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/3kHz)		Verdict
			ANT1	Limit	
1M	SISO	2402	-7.86	<=8	Pass
		2440	-8.00	<=8	Pass
		2480	-8.13	<=8	Pass
2M	SISO	2402	-11.41	<=8	Pass
		2440	-11.45	<=8	Pass
		2480	-11.64	<=8	Pass

Note1: Antenna Gain: Ant1: 3.37dBi;

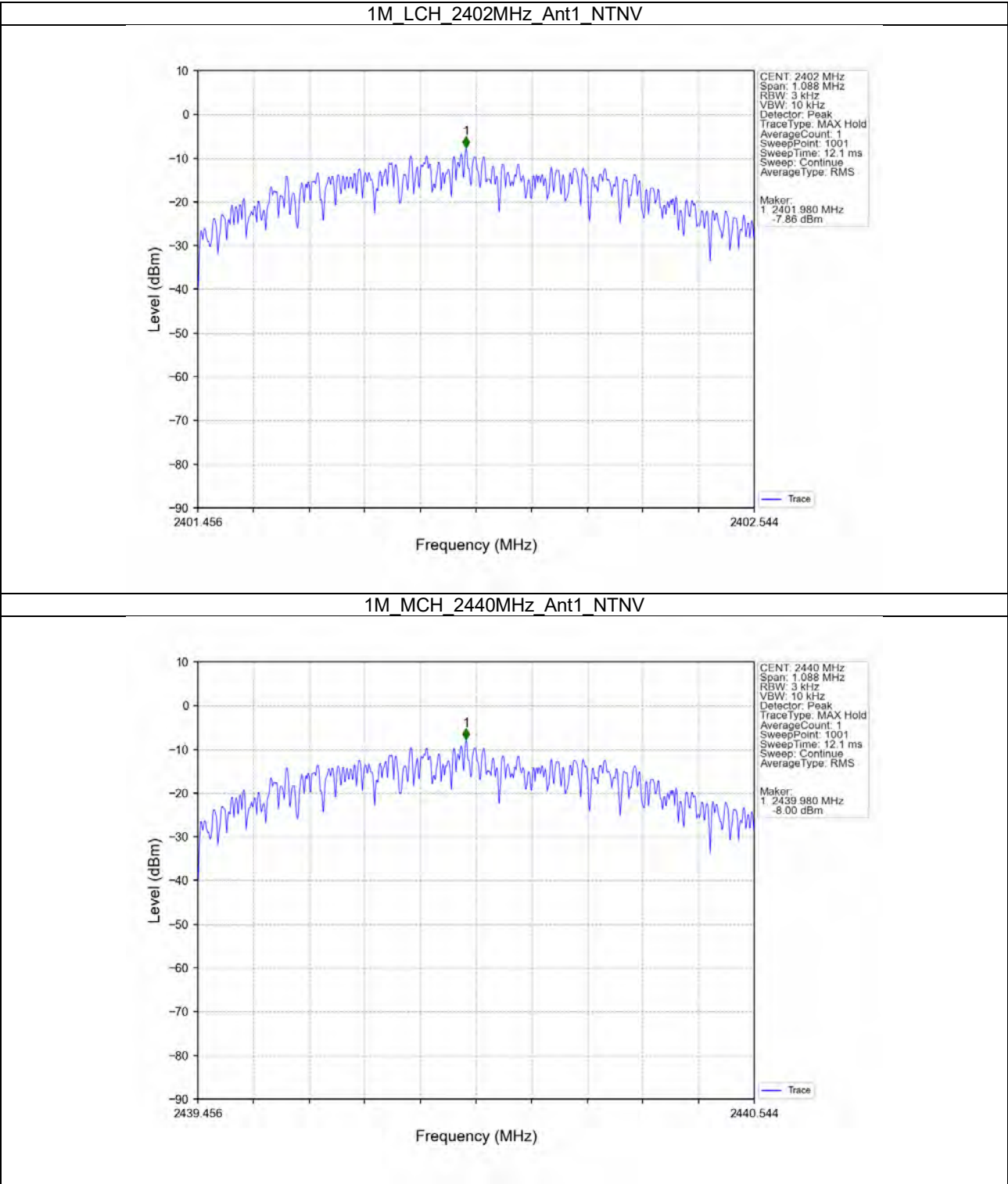


SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250400030901
Rev.: 01
Page: 53 of 128

4.2 Test Graph

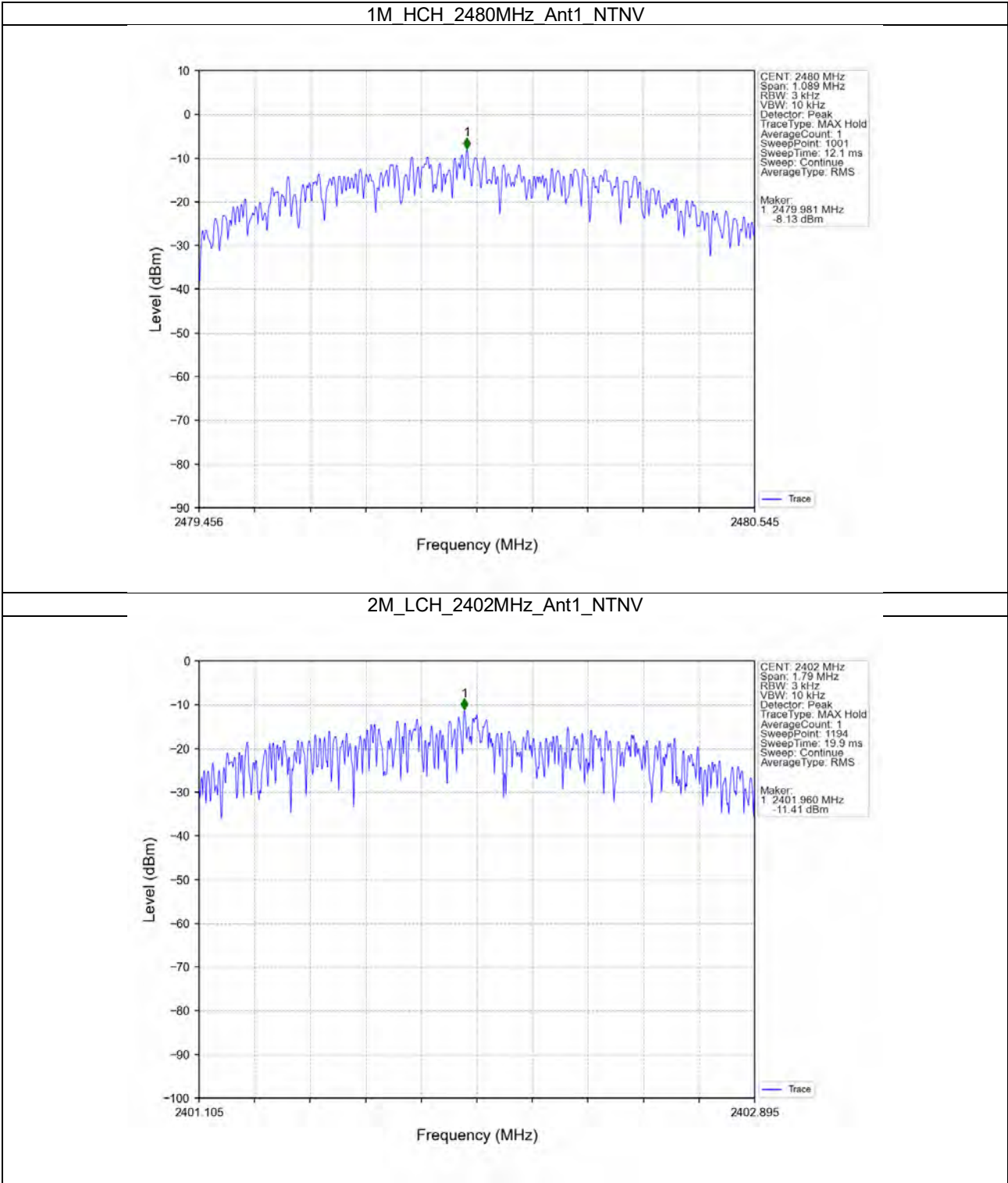
4.2.1 PSD





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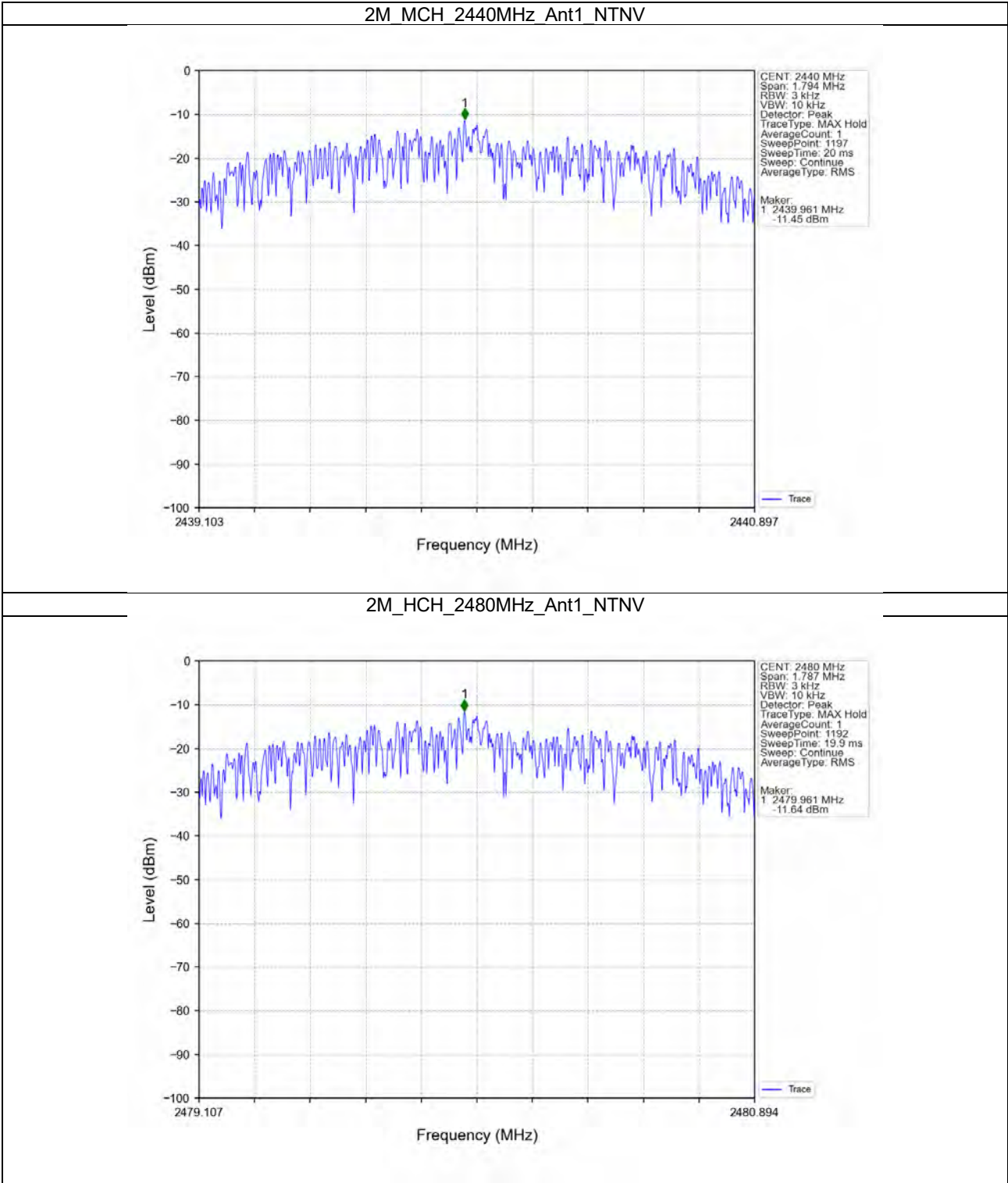
Report No.: SUCR250400030901
Rev.: 01
Page: 54 of 128





SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250400030901
Rev.: 01
Page: 55 of 128





SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250400030901

Rev.: 01

Page: 56 of 128

5. Unwanted Emissions In Non-restricted Frequency Bands

5.1 Test Result

5.1.1 Ref

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)
1M	SISO	2402	1	5.39
		2440	1	5.28
		2480	1	5.14
2M	SISO	2402	1	5.53
		2440	1	5.40
		2480	1	5.25

Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2020, the channel contains the maximum PSD level was used to establish the reference level.

5.1.2 CSE

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
1M	SISO	2402	1	5.39	-24.61	Pass
		2440	1	5.28	-24.72	Pass
		2480	1	5.14	-24.86	Pass
2M	SISO	2402	1	5.53	-24.47	Pass
		2440	1	5.40	-24.60	Pass
		2480	1	5.25	-24.75	Pass

Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2020, the channel contains the maximum PSD level was used to establish the reference level.

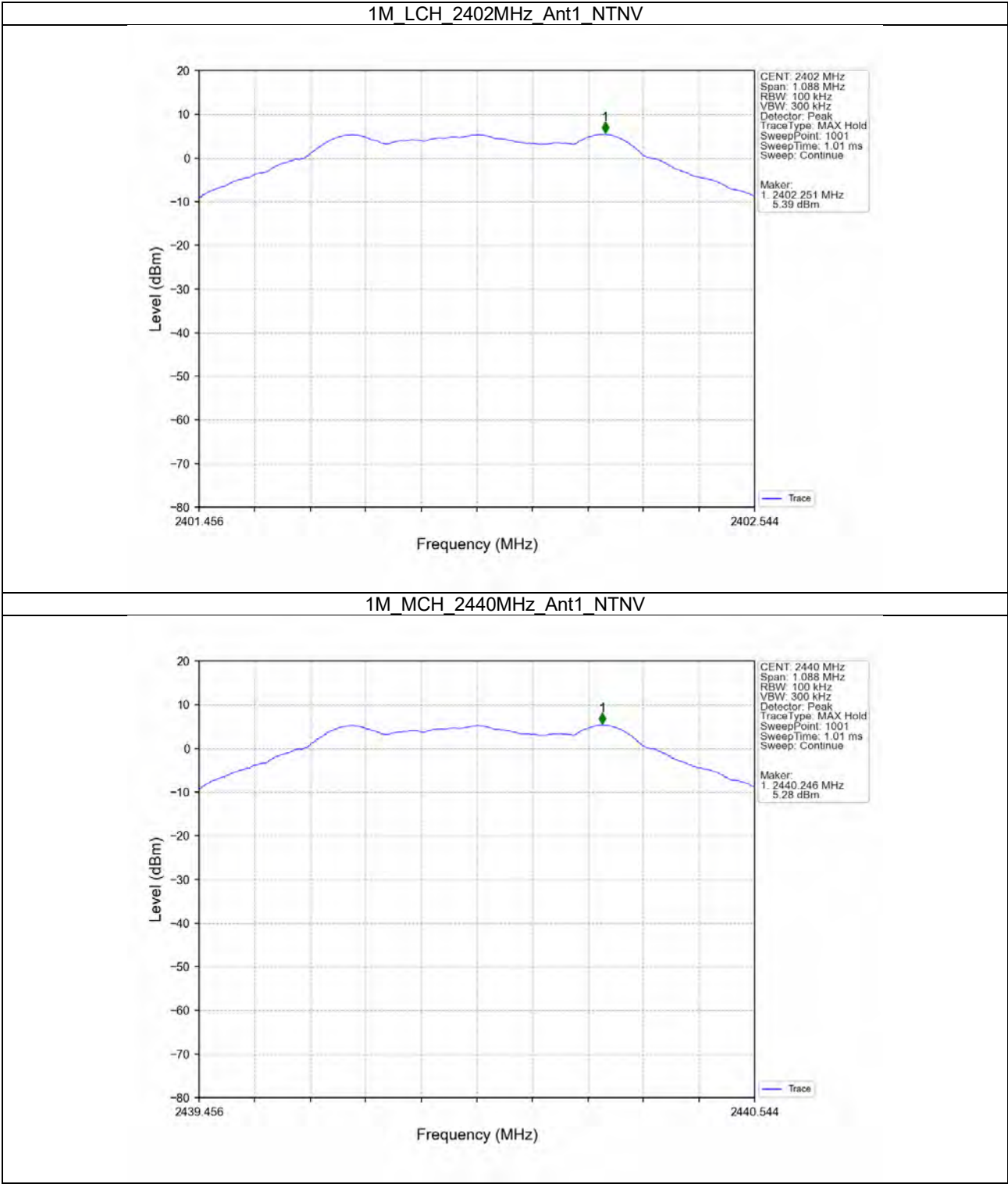


SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250400030901
Rev.: 01
Page: 57 of 128

5.2 Test Graph

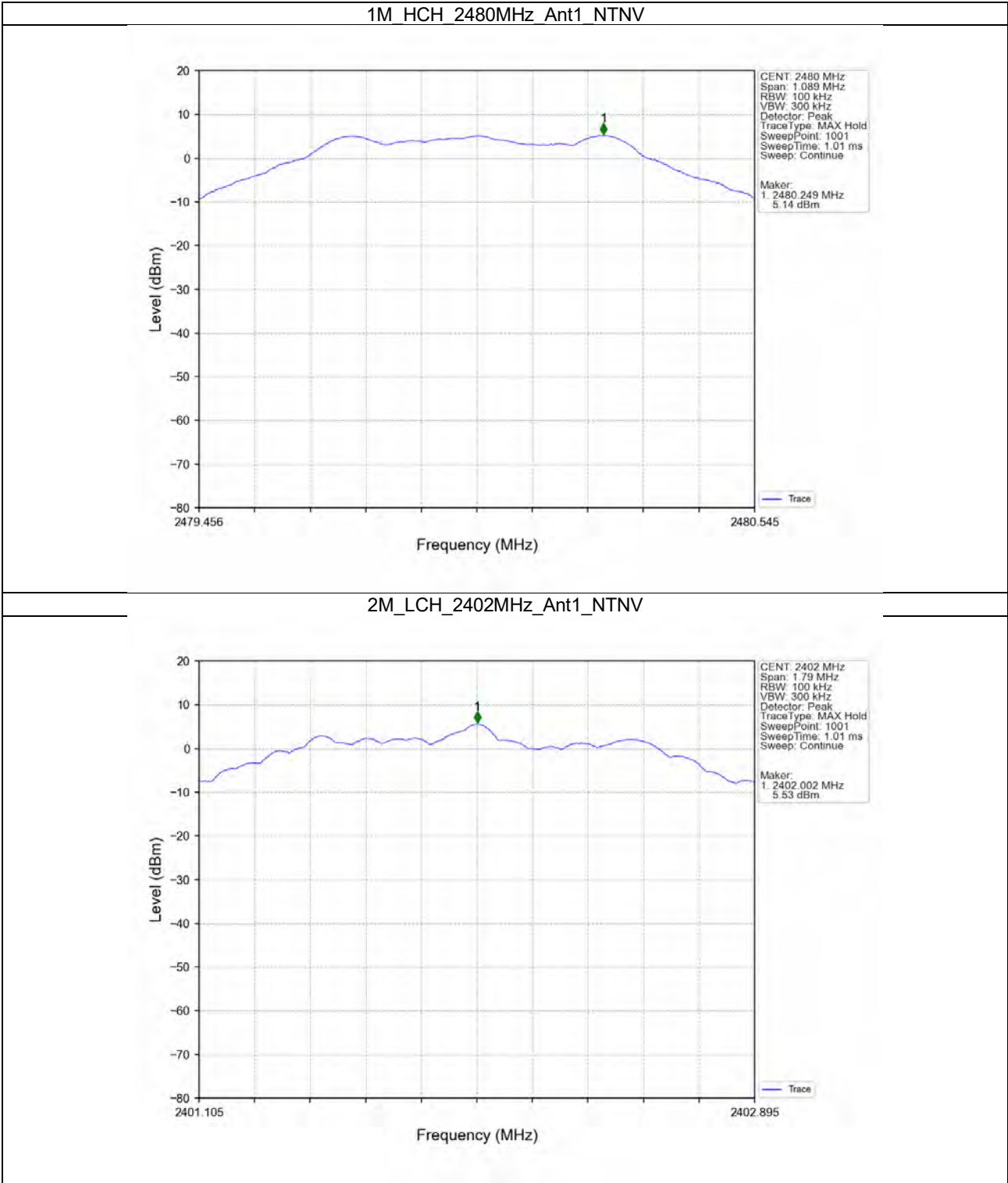
5.2.1 Ref





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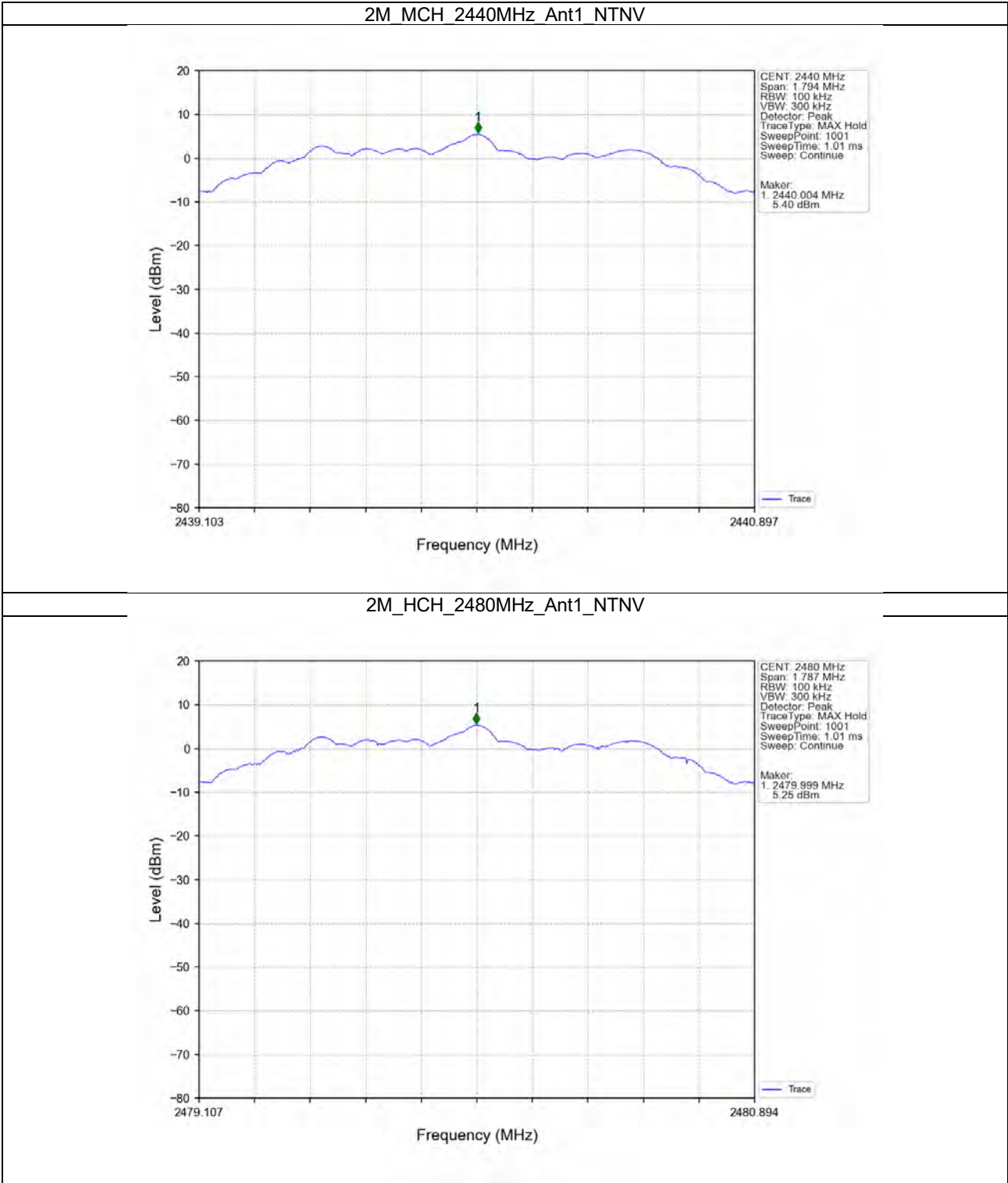
Report No.: SUCR250400030901
Rev.: 01
Page: 58 of 128





SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250400030901
Rev.: 01
Page: 59 of 128

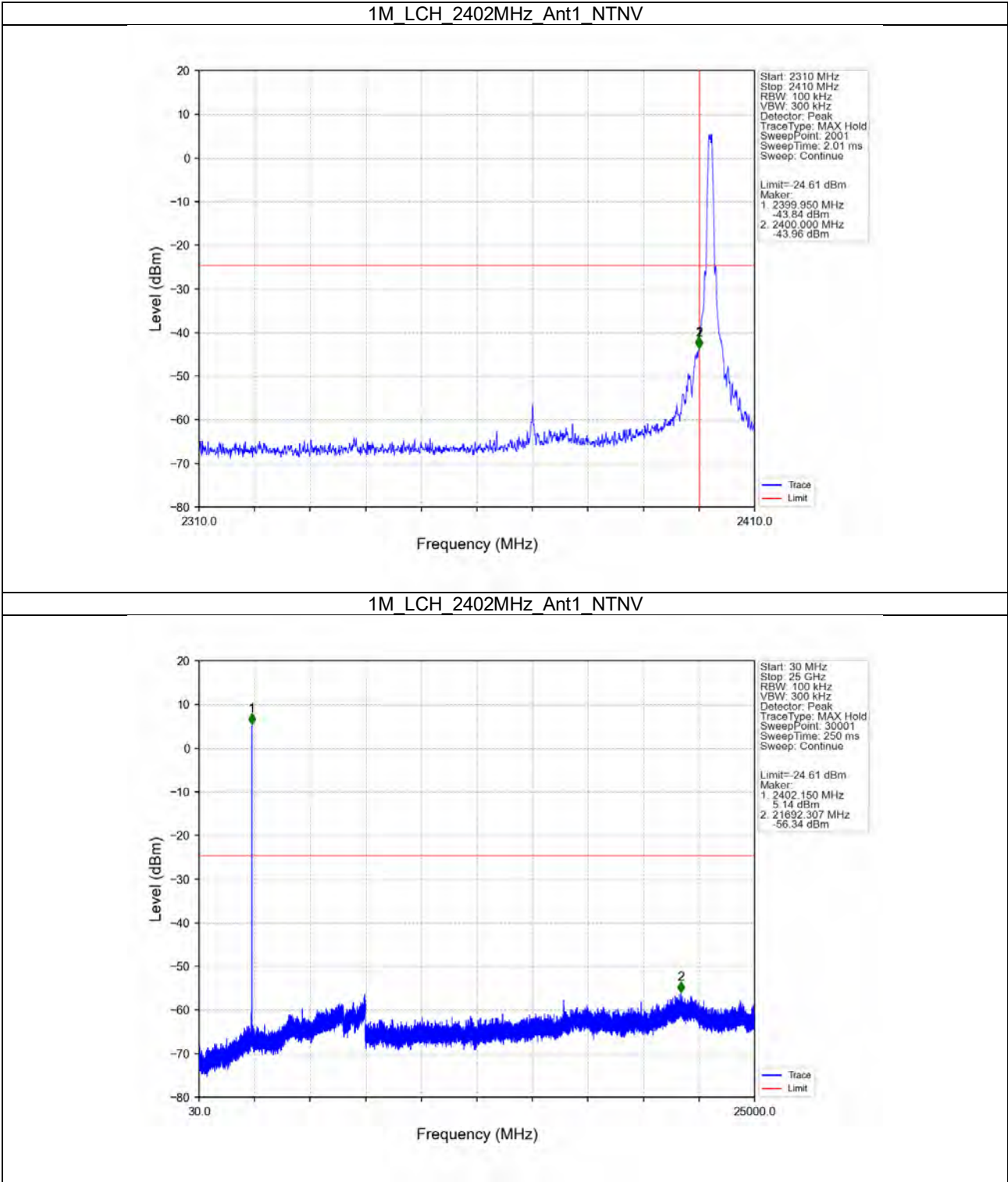




SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250400030901
Rev.: 01
Page: 60 of 128

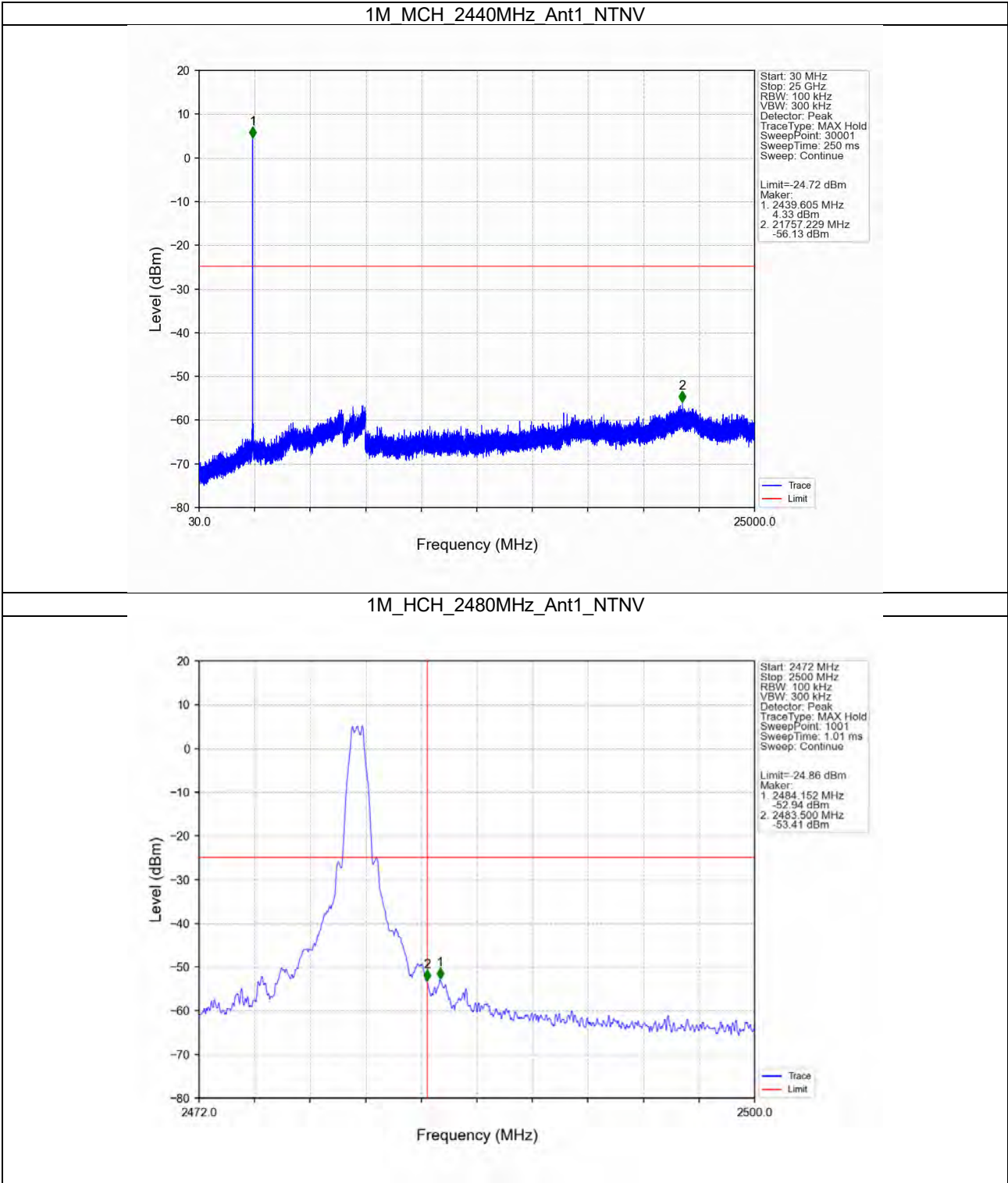
5.2.2 CSE





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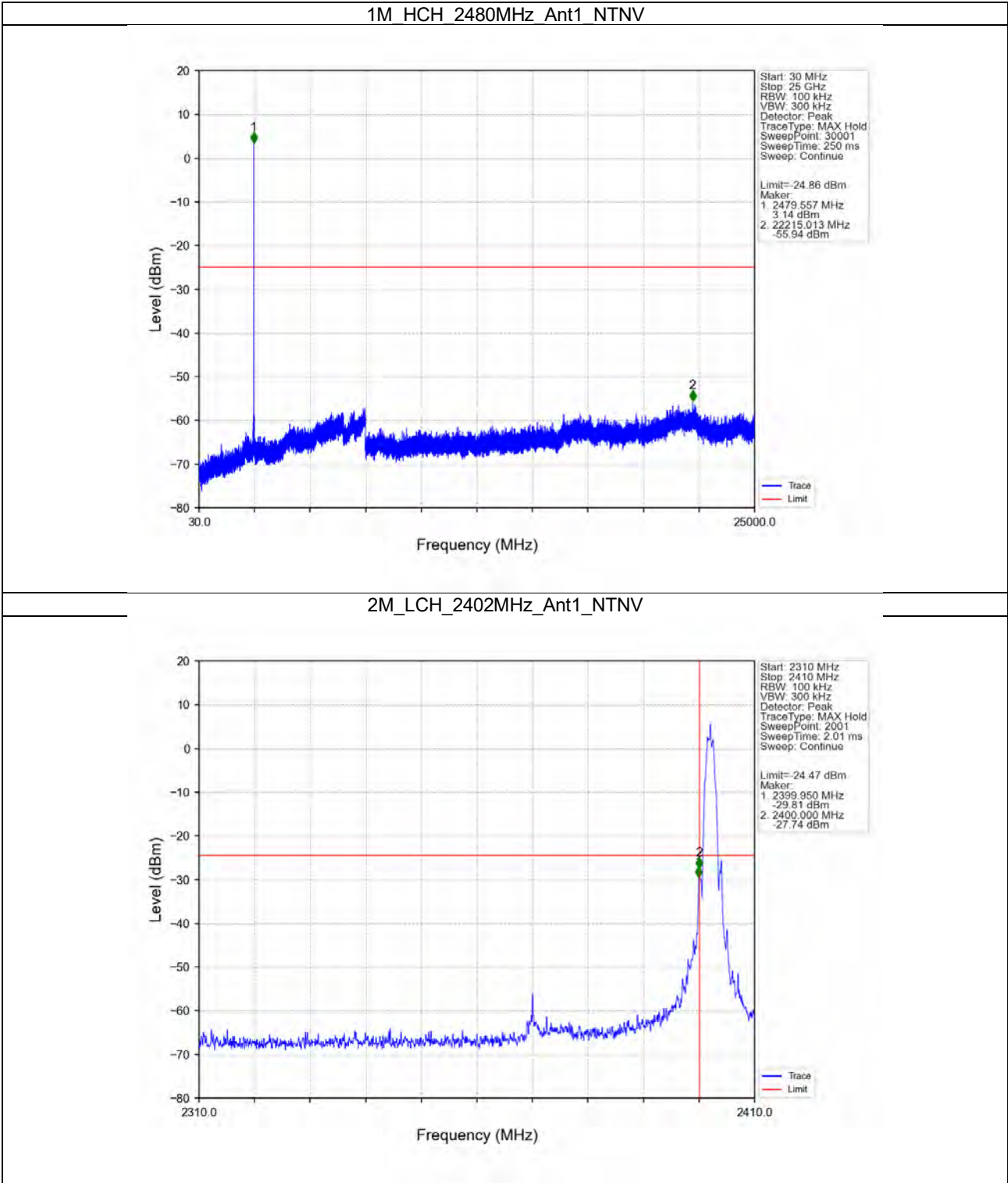
Report No.: SUCR250400030901
Rev.: 01
Page: 61 of 128





SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

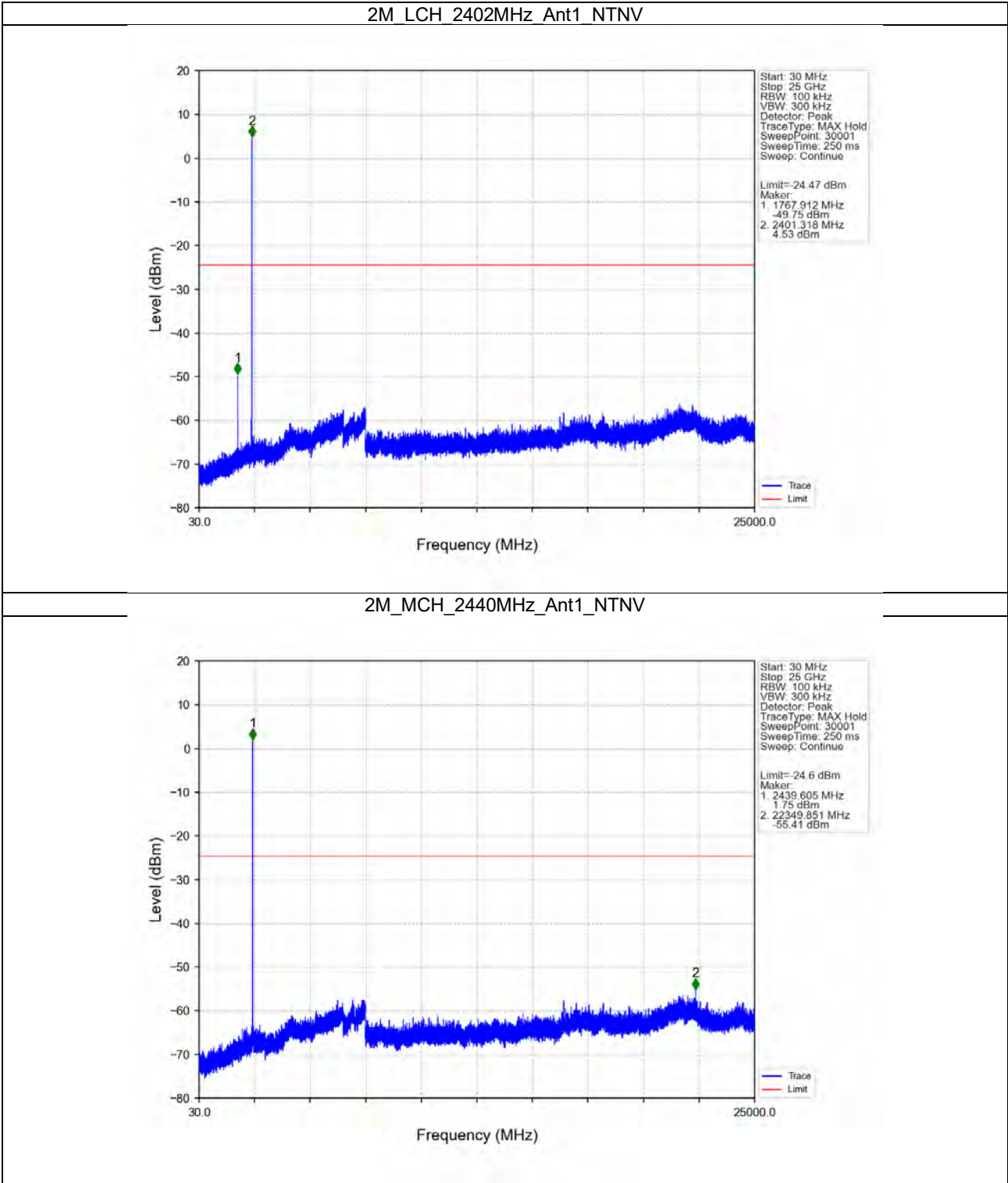
Report No.: SUCR250400030901
Rev.: 01
Page: 62 of 128





SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

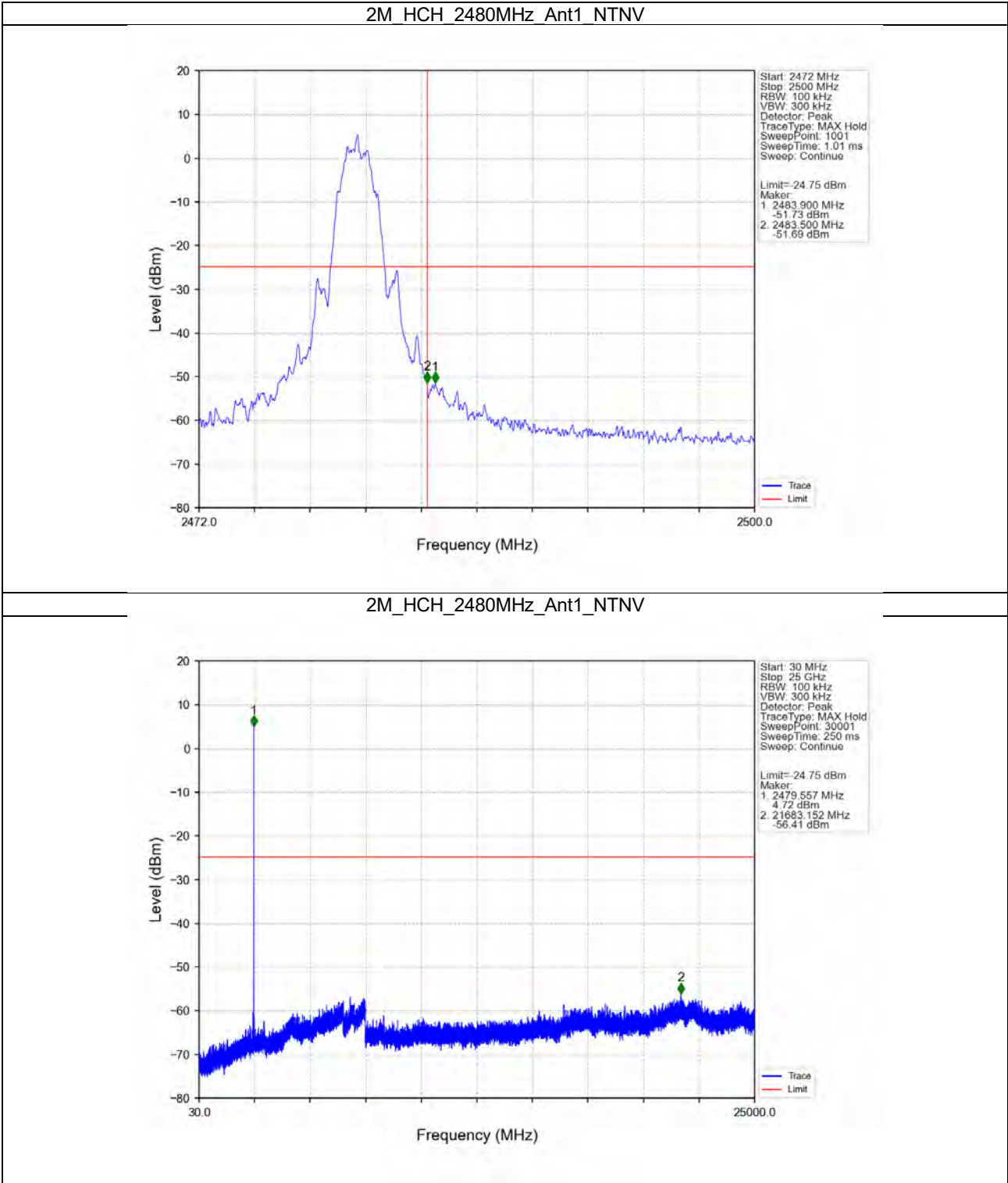
Report No.: SUCR250400030901
Rev.: 01
Page: 63 of 128





SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250400030901
Rev.: 01
Page: 64 of 128





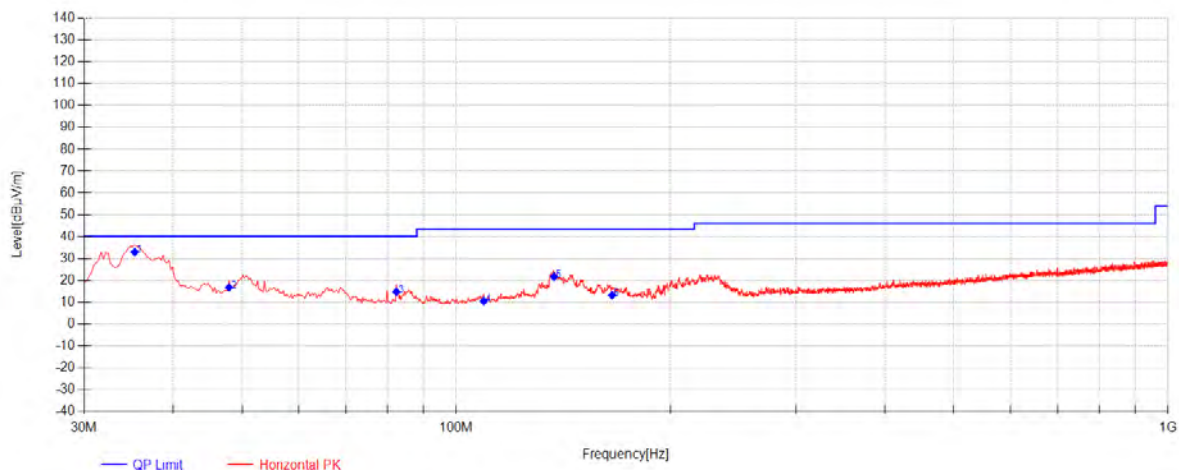
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Report No.: SUCR250400030901

Rev.: 01

Page: 65 of 128

Radiated Spurious Emissions
Radiated emission below 1GHz
Worst case Mode:
MQM711-0-50-0B
BLE 1M_Channel 39 WORSE



Final Data List

NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]	Polarity
1	35.335	56.94	-42.27	18.23	32.91	40.00	7.09	Horizontal
2	47.945	40.02	-42.17	18.81	16.66	40.00	23.34	Horizontal
3	82.38	41.63	-41.58	14.56	14.61	40.00	25.39	Horizontal
4	109.2975	36.35	-41.44	15.47	10.38	43.50	33.12	Horizontal
5	137.185	44.18	-41.09	18.48	21.57	43.50	21.93	Horizontal
6	165.5575	34.87	-40.68	18.84	13.03	43.50	30.47	Horizontal



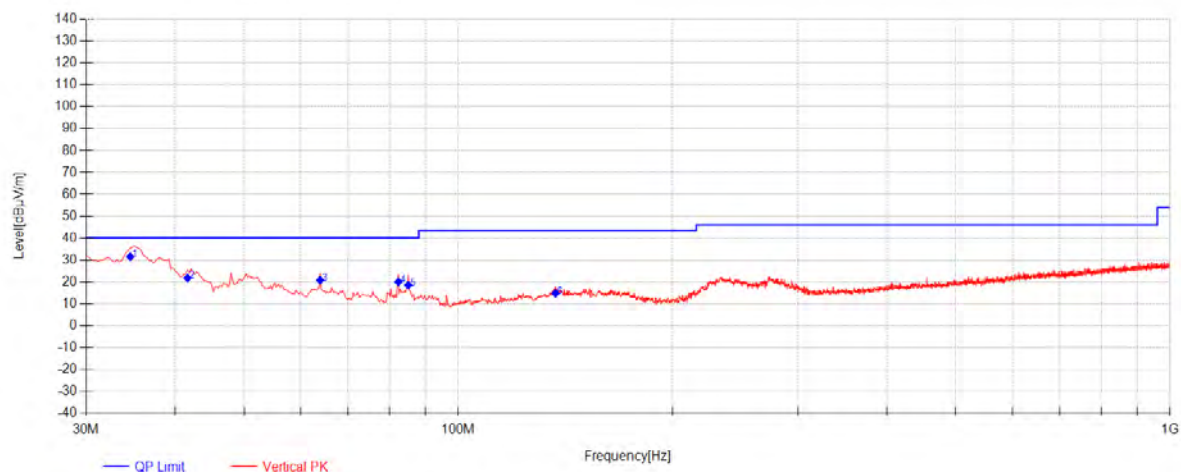
SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250400030901

Rev.: 01

Page: 66 of 128

BLE 1M_Channel 39 WORSE



Final Data List

NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]	Polarity
1	34.6075	55.56	-42.27	18.20	31.49	40.00	8.51	Vertical
2	41.64	45.19	-42.22	18.74	21.71	40.00	18.29	Vertical
3	63.95	45.16	-41.93	17.51	20.74	40.00	19.26	Vertical
4	82.38	46.99	-41.58	14.56	19.97	40.00	20.03	Vertical
5	85.0475	45.25	-41.53	14.77	18.49	40.00	21.51	Vertical
6	136.9425	37.25	-41.10	18.51	14.66	43.50	28.84	Vertical



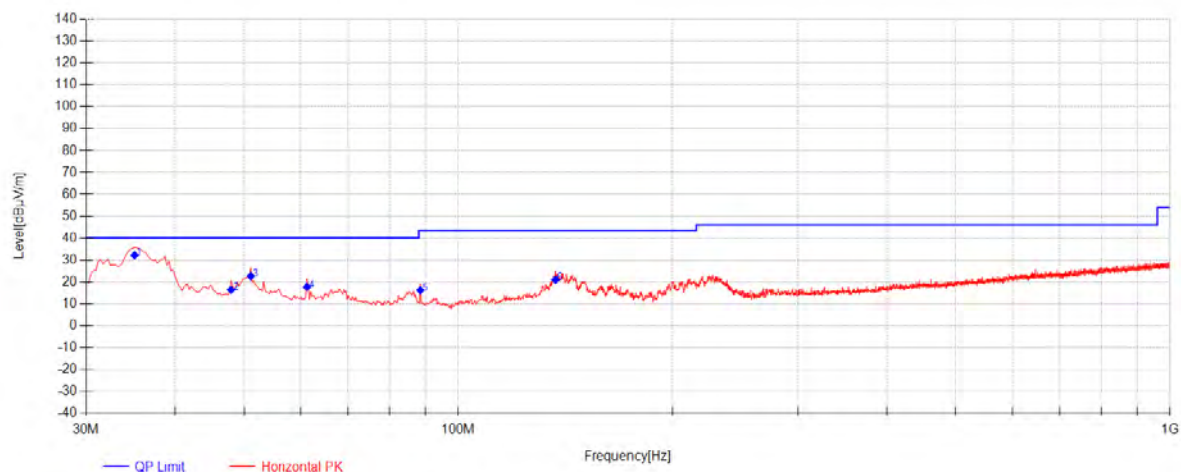
SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250400030901

Rev.: 01

Page: 67 of 128

BLE 2M_Channel 39 WORSE



Final Data List

NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]	Polarity
1	35.0925	56.25	-42.27	18.21	32.19	40.00	7.81	Horizontal
2	47.945	39.65	-42.17	18.81	16.29	40.00	23.71	Horizontal
3	51.0975	46.21	-42.13	18.49	22.57	40.00	17.43	Horizontal
4	61.2825	42.11	-41.97	17.47	17.61	40.00	22.39	Horizontal
5	88.4425	43.02	-41.46	14.56	16.11	43.50	27.39	Horizontal
6	136.9425	43.51	-41.10	18.51	20.92	43.50	22.58	Horizontal



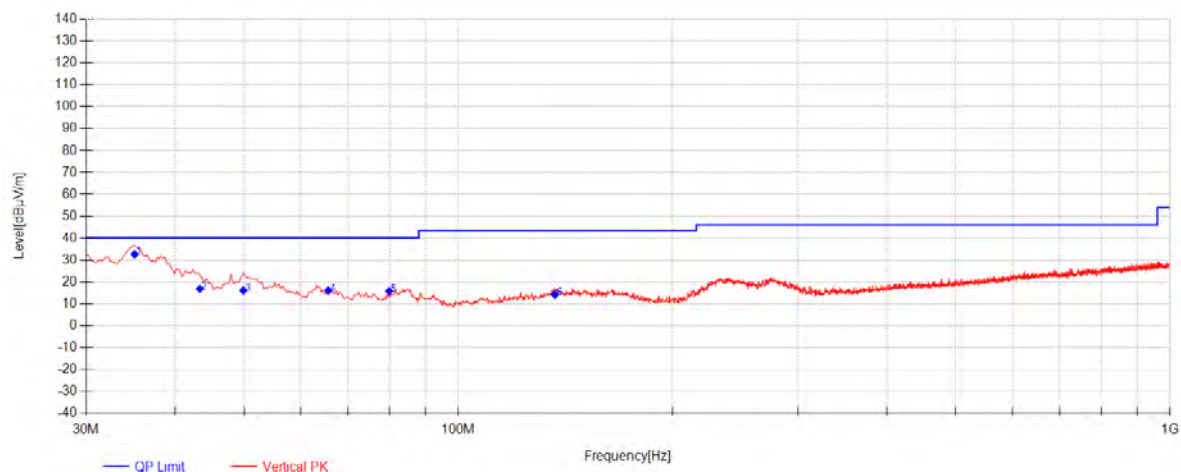
SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250400030901

Rev.: 01

Page: 68 of 128

BLE 2M_Channel 39 WORSE



Final Data List

NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]	Polarity
1	35.0925	56.63	-42.27	18.21	32.57	40.00	7.43	Vertical
2	43.3375	40.13	-42.20	18.80	16.73	40.00	23.27	Vertical
3	49.885	39.54	-42.15	18.62	16.01	40.00	23.99	Vertical
4	65.6475	40.59	-41.90	17.26	15.96	40.00	24.04	Vertical
5	79.955	42.41	-41.63	14.91	15.69	40.00	24.31	Vertical
6	136.7	36.59	-41.11	18.53	14.01	43.50	29.49	Vertical



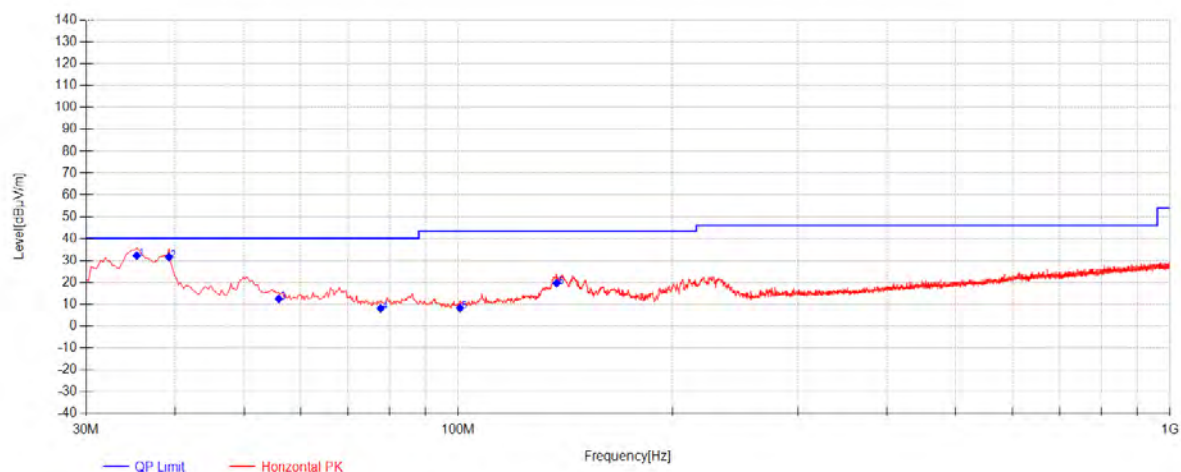
SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250400030901

Rev.: 01

Page: 69 of 128

MQM711-0-50-0U
BLE 1M_Channel 39 WORSE



Final Data List

NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]	Polarity
1	35.335	56.23	-42.27	18.23	32.20	40.00	7.80	Horizontal
2	39.215	55.15	-42.24	18.64	31.56	40.00	8.44	Horizontal
3	55.9475	36.21	-42.05	18.20	12.36	40.00	27.64	Horizontal
4	77.7725	34.33	-41.67	15.32	7.98	40.00	32.02	Horizontal
5	100.5675	34.85	-41.44	14.71	8.13	43.50	35.37	Horizontal
6	137.4275	42.18	-41.08	18.46	19.55	43.50	23.95	Horizontal



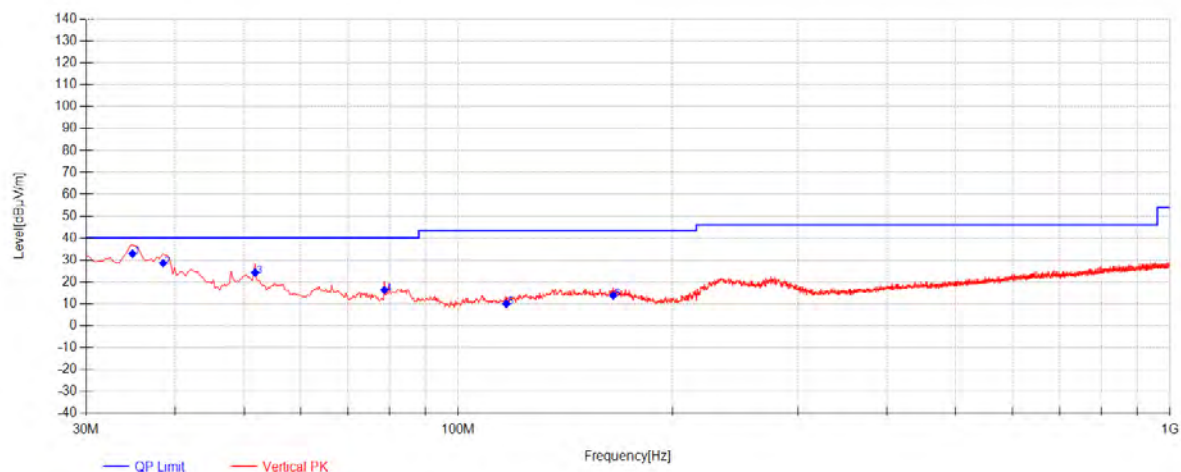
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Report No.: SUCR250400030901

Rev.: 01

Page: 70 of 128

BLE 1M_Channel 39 WORSE



Final Data List

NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]	Polarity
1	34.85	56.89	-42.27	18.20	32.82	40.00	7.18	Vertical
2	38.4875	52.14	-42.24	18.60	28.50	40.00	11.50	Vertical
3	51.825	47.83	-42.12	18.42	24.13	40.00	15.87	Vertical
4	78.7425	42.63	-41.66	15.23	16.20	40.00	23.80	Vertical
5	116.815	35.03	-41.39	16.30	9.94	43.50	33.56	Vertical
6	165.0725	35.45	-40.68	18.89	13.66	43.50	29.84	Vertical



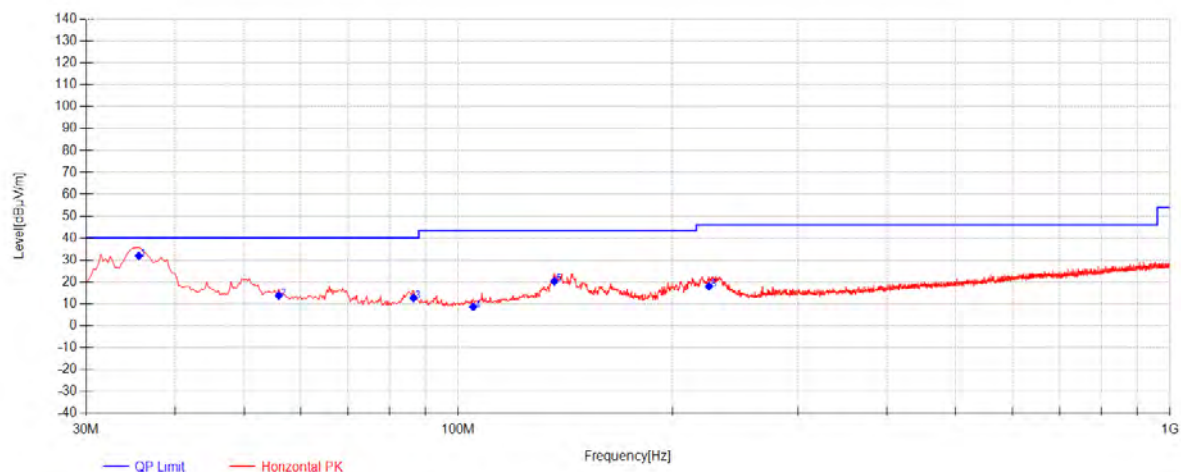
SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250400030901

Rev.: 01

Page: 71 of 128

BLE 2M_Channel 39 WORSE



Final Data List

NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]	Polarity
1	35.5775	55.86	-42.27	18.26	31.85	40.00	8.15	Horizontal
2	55.9475	37.45	-42.05	18.20	13.60	40.00	26.40	Horizontal
3	86.5025	39.66	-41.50	14.40	12.56	40.00	27.44	Horizontal
4	104.9325	34.45	-41.44	15.49	8.50	43.50	35.00	Horizontal
5	136.4575	42.78	-41.11	18.55	20.22	43.50	23.28	Horizontal
6	224.97	42.23	-40.53	16.20	17.90	46.00	28.10	Horizontal



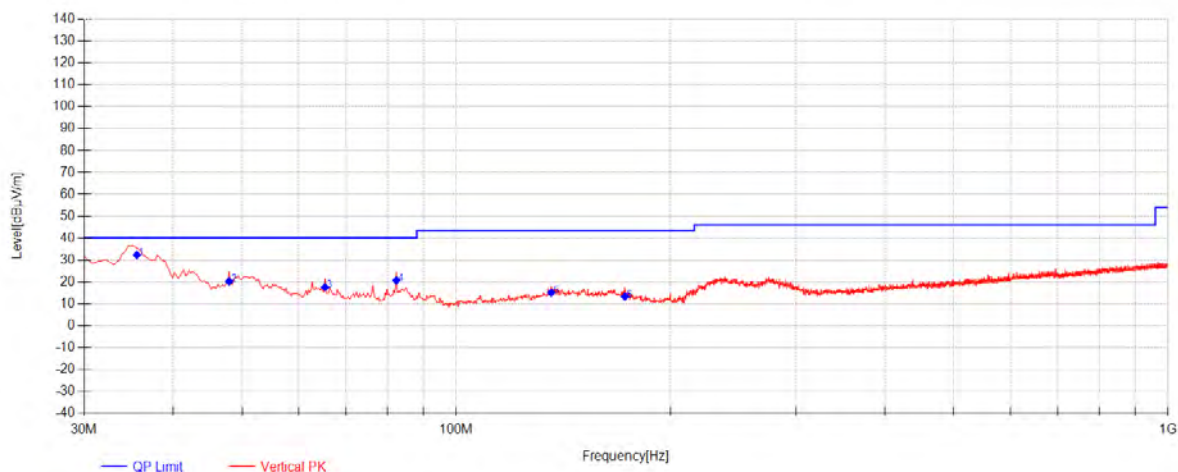
SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250400030901

Rev.: 01

Page: 72 of 128

BLE 2M_Channel 39 WORSE



Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]	Polarity
1	35.5775	56.33	-42.27	18.26	32.32	40.00	7.68	Vertical
2	47.945	43.56	-42.17	18.81	20.20	40.00	19.80	Vertical
3	65.405	42.18	-41.90	17.24	17.52	40.00	22.48	Vertical
4	82.38	47.63	-41.58	14.56	20.61	40.00	19.39	Vertical
5	135.9725	37.52	-41.13	18.60	14.99	43.50	28.51	Vertical
6	172.59	35.59	-40.66	18.22	13.15	43.50	30.35	Vertical

Remark:

- The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier gain. The basic equation with a sample calculation is as follows:
Value = Reading(dBμV) + AF(dB/m) + Factor(dB):
AF = Antenna Factor(dB/m)
Factor = Cable Factor(dB) - Preamplifier gain(dB)
Margin = Limit(dBμV/m) – Value(dBμV/m)
- All channels have been tested, but only the worst case data displayed in this report.



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Report No.: SUCR250400030901

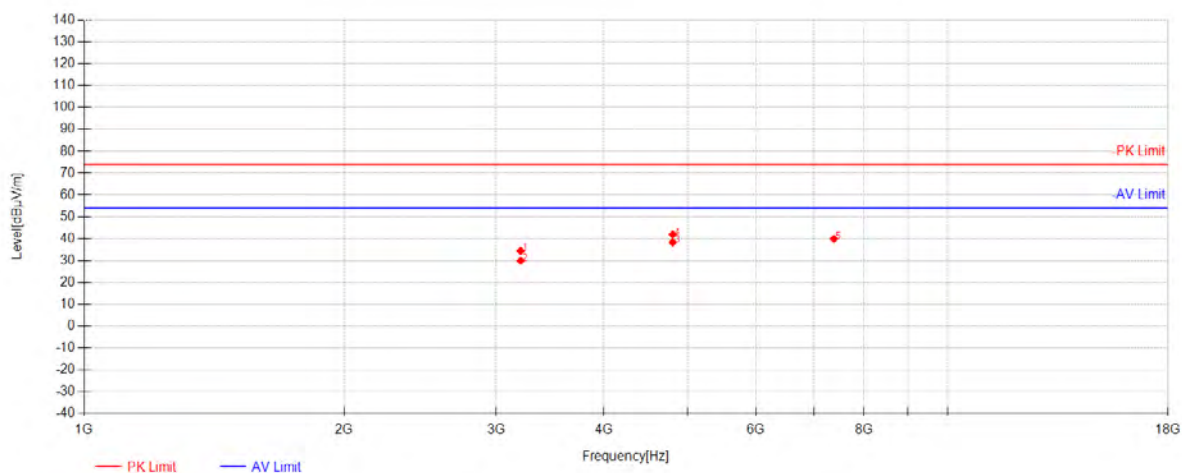
Rev.: 01

Page: 73 of 128

Radiated emission Above 1GHz

MQM711-0-50-0B

BLE 1M_Channel 00



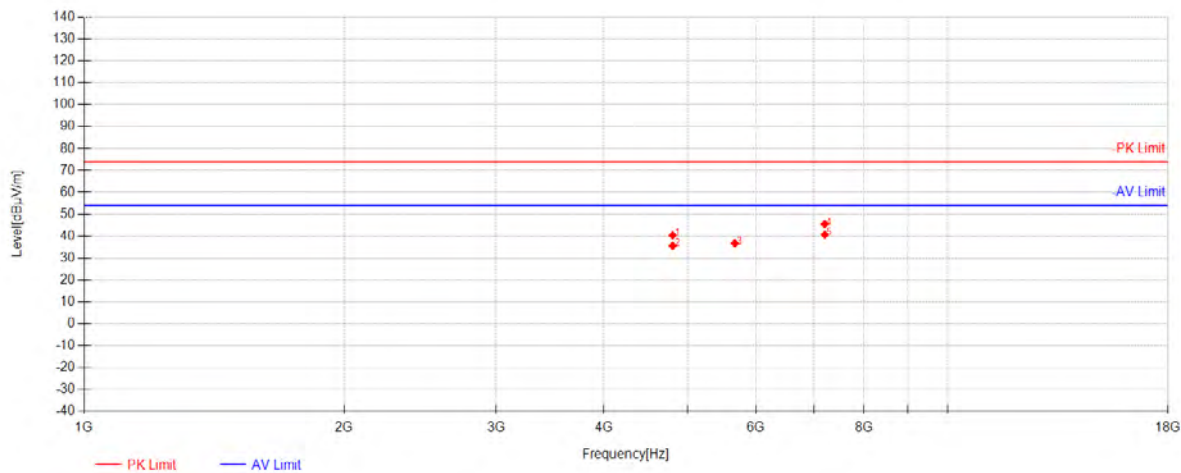
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	3202.5	51.79	28.30	-45.75	34.34	74.00	39.66	Horizontal
2	3202.875	47.32	28.30	-45.75	29.87	54.00	24.13	Horizontal
3	4804.125	52.69	31.09	-45.54	38.24	54.00	15.76	Horizontal
4	4804.5	56.33	31.09	-45.54	41.88	74.00	32.12	Horizontal
5	7385.25	47.19	36.08	-43.46	39.81	74.00	34.19	Horizontal



SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250400030901
Rev.: 01
Page: 74 of 128

BLE 1M_Channel 00



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	4804.125	54.78	31.09	-45.54	40.33	74.00	33.67	Vertical
2	4804.5	49.96	31.09	-45.54	35.51	54.00	18.49	Vertical
3	5669.625	49.21	32.33	-44.92	36.63	74.00	37.37	Vertical
4	7205.25	53.34	35.57	-43.44	45.48	74.00	28.52	Vertical
5	7206.75	48.46	35.58	-43.44	40.60	54.00	13.40	Vertical



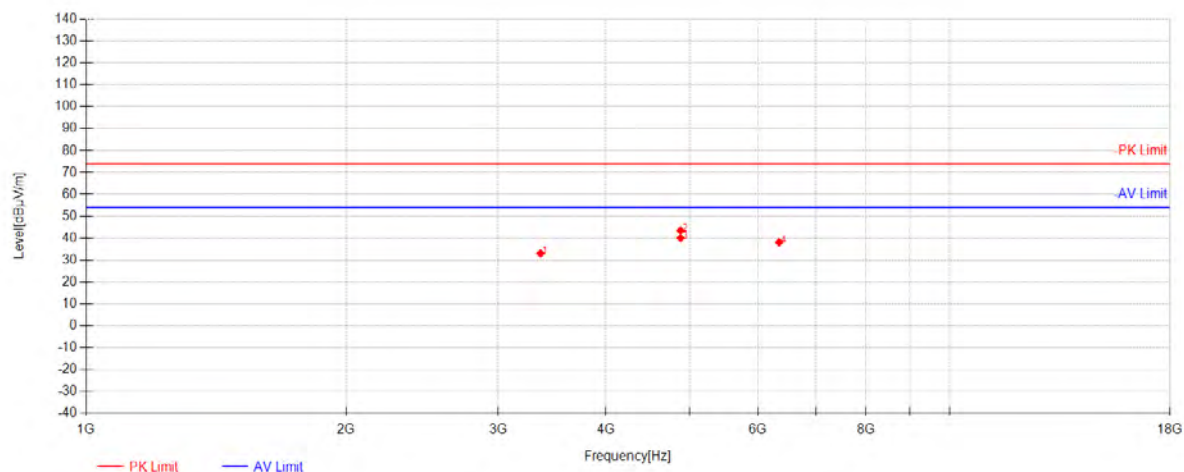
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Report No.: SUCR250400030901

Rev.: 01

Page: 75 of 128

BLE 1M_Channel 19



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	3359.625	50.88	28.46	-46.35	32.99	74.00	41.01	Horizontal
2	4879.5	57.78	31.21	-45.53	43.46	74.00	30.54	Horizontal
3	4879.875	54.27	31.21	-45.53	39.95	54.00	14.05	Horizontal
4	6347.25	48.92	33.58	-44.48	38.02	74.00	35.98	Horizontal



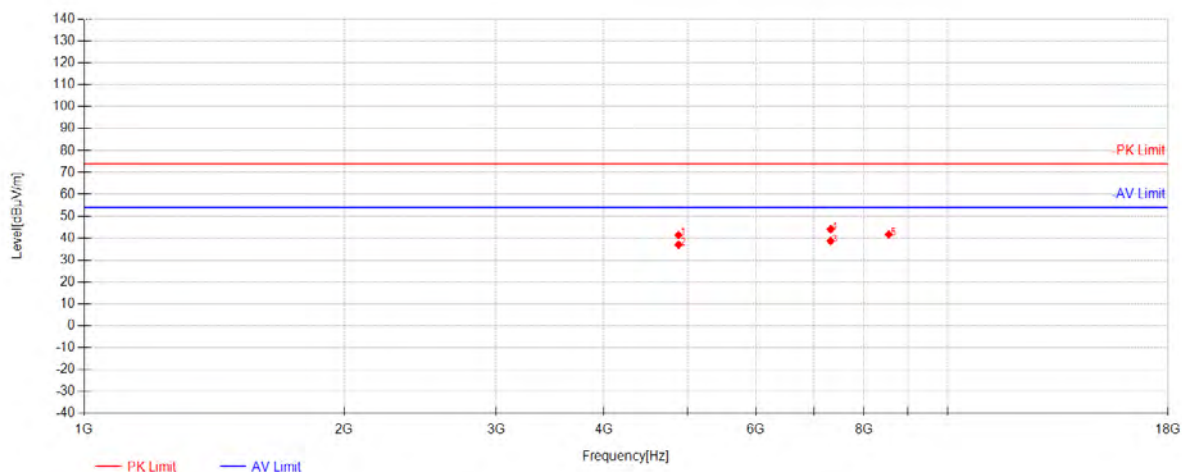
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Report No.: SUCR250400030901

Rev.: 01

Page: 76 of 128

BLE 1M_Channel 19



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	4879.875	55.64	31.21	-45.53	41.32	74.00	32.68	Vertical
2	4880.25	51.23	31.21	-45.53	36.91	54.00	17.09	Vertical
3	7319.625	46.35	35.89	-43.68	38.56	54.00	15.44	Vertical
4	7320.75	51.81	35.90	-43.68	44.03	74.00	29.97	Vertical
5	8547.75	46.34	36.77	-41.48	41.63	74.00	32.37	Vertical



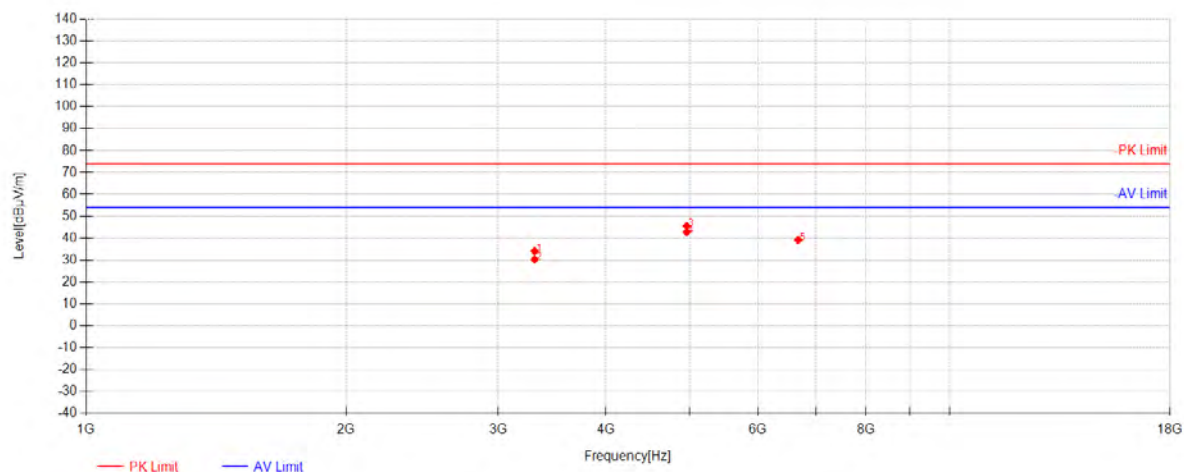
SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250400030901

Rev.: 01

Page: 77 of 128

BLE 1M_Channel 39



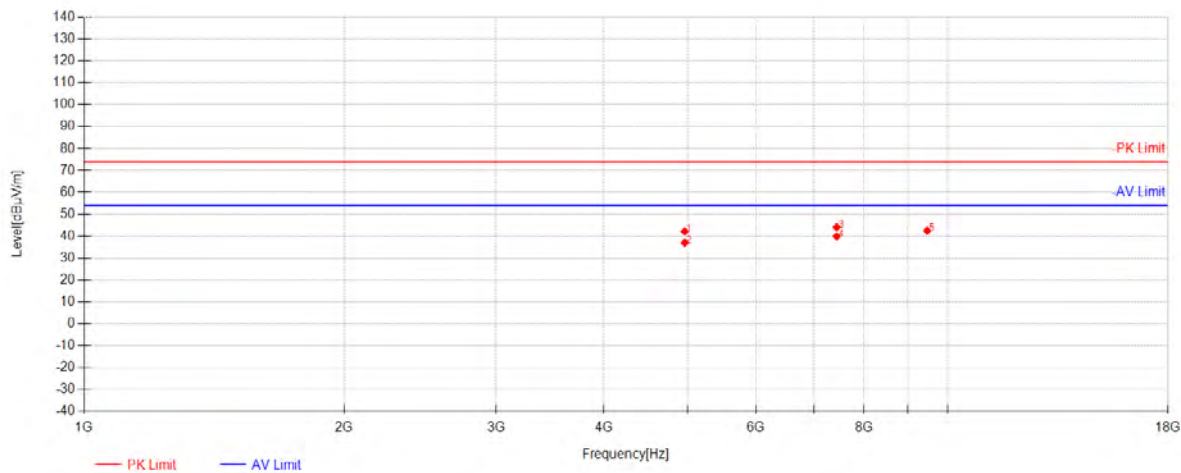
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	3306.375	52.05	28.41	-46.45	34.01	74.00	39.99	Horizontal
2	3307.125	48.29	28.41	-46.45	30.25	54.00	23.75	Horizontal
3	4959.375	59.78	31.34	-45.60	45.52	74.00	28.48	Horizontal
4	4959.75	56.99	31.34	-45.60	42.73	54.00	11.27	Horizontal
5	6678	48.56	34.42	-43.93	39.05	74.00	34.95	Horizontal



SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250400030901
Rev.: 01
Page: 78 of 128

BLE 1M_Channel 39



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	4959.75	56.40	31.34	-45.60	42.14	74.00	31.86	Vertical
2	4960.5	51.17	31.34	-45.60	36.91	54.00	17.09	Vertical
3	7438.875	51.11	36.23	-43.31	44.03	74.00	29.97	Vertical
4	7439.625	46.84	36.23	-43.30	39.77	54.00	14.23	Vertical
5	9471	45.15	37.44	-40.11	42.48	74.00	31.52	Vertical



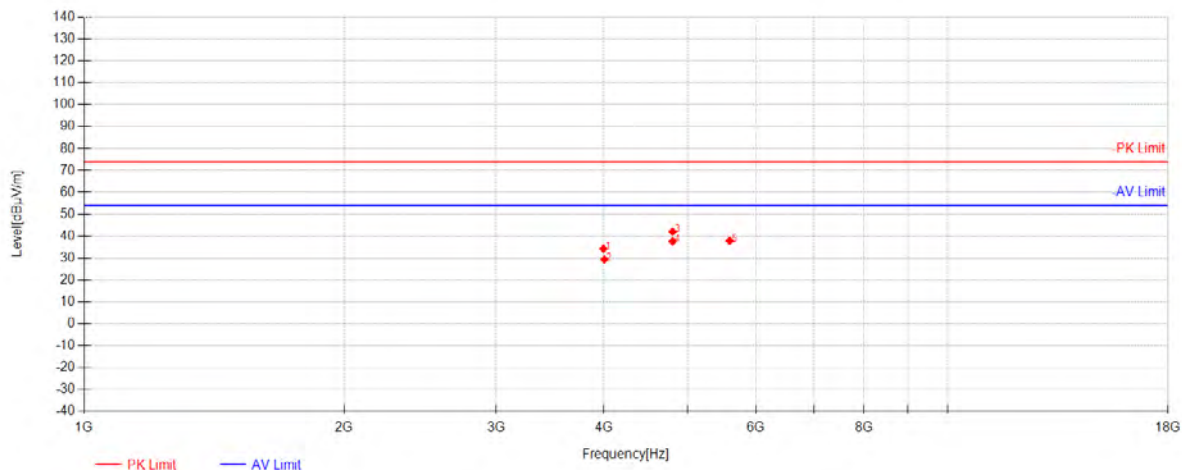
SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250400030901

Rev.: 01

Page: 79 of 128

BLE 2M_Channel 00



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	3993.75	50.86	29.39	-46.06	34.19	74.00	39.81	Horizontal
2	4003.875	45.88	29.41	-46.03	29.26	54.00	24.74	Horizontal
3	4803	56.48	31.08	-45.54	42.03	74.00	31.97	Horizontal
4	4804.5	51.92	31.09	-45.54	37.47	54.00	16.53	Horizontal
5	5592	50.54	32.32	-45.08	37.77	74.00	36.23	Horizontal



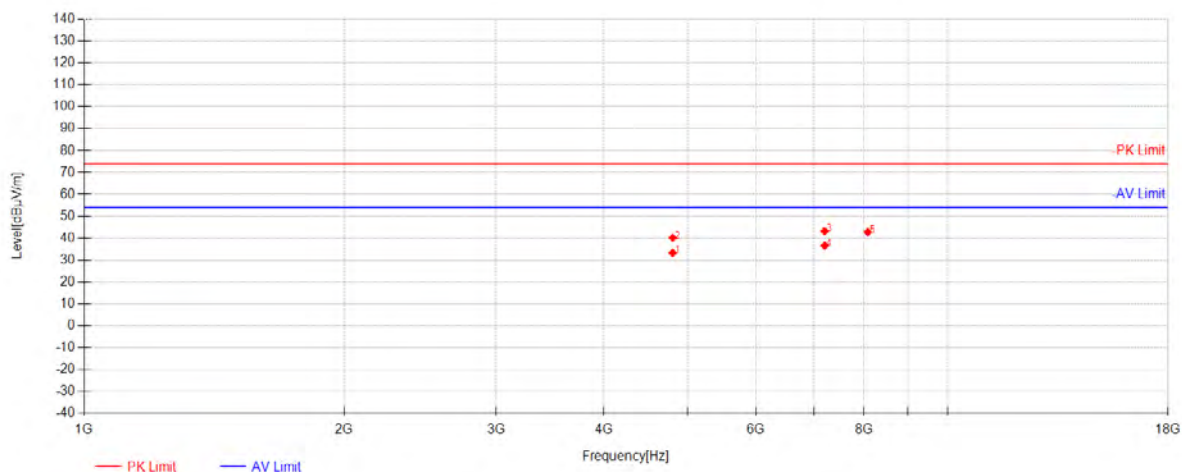
SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250400030901

Rev.: 01

Page: 80 of 128

BLE 2M_Channel 00



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	4803.75	47.68	31.09	-45.54	33.23	54.00	20.77	Vertical
2	4805.25	54.53	31.09	-45.54	40.08	74.00	33.92	Vertical
3	7204.5	51.08	35.57	-43.43	43.22	74.00	30.78	Vertical
4	7204.875	44.33	35.57	-43.44	36.47	54.00	17.53	Vertical
5	8082.375	47.24	37.05	-41.53	42.76	74.00	31.24	Vertical



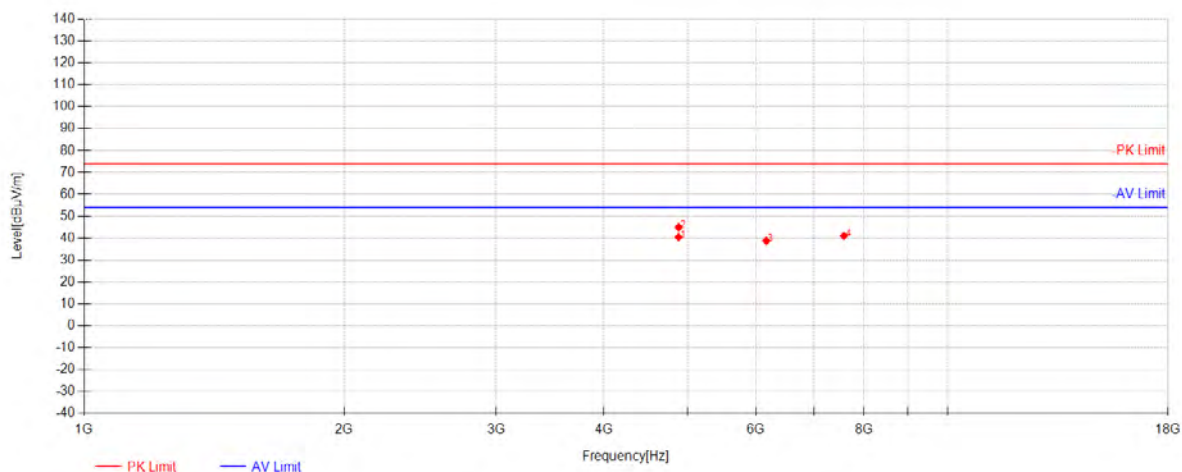
SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250400030901

Rev.: 01

Page: 81 of 128

BLE 2M_Channel 19



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	4880.25	54.73	31.21	-45.53	40.41	54.00	13.59	Horizontal
2	4881	59.25	31.21	-45.53	44.93	74.00	29.07	Horizontal
3	6166.125	50.32	32.96	-44.65	38.63	74.00	35.37	Horizontal
4	7584	47.42	36.52	-42.96	40.97	74.00	33.03	Horizontal



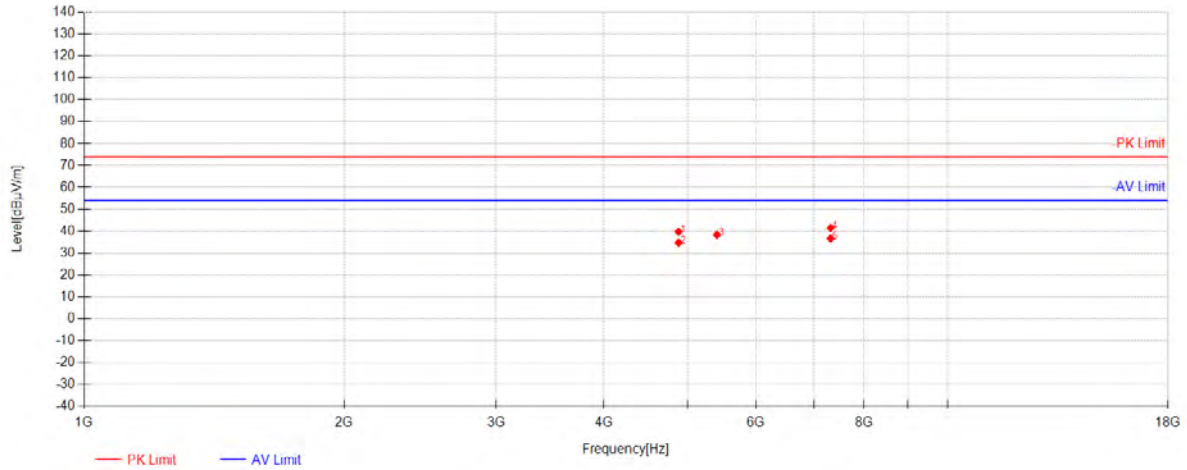
SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250400030901

Rev.: 01

Page: 82 of 128

BLE 2M_Channel 19



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	4879.875	53.98	31.21	-45.53	39.66	74.00	34.34	Vertical
2	4881	48.98	31.21	-45.53	34.66	54.00	19.34	Vertical
3	5406.375	51.41	32.13	-45.30	38.25	74.00	35.75	Vertical
4	7318.5	49.16	35.89	-43.69	41.36	74.00	32.64	Vertical
5	7320.375	44.32	35.90	-43.68	36.54	54.00	17.46	Vertical



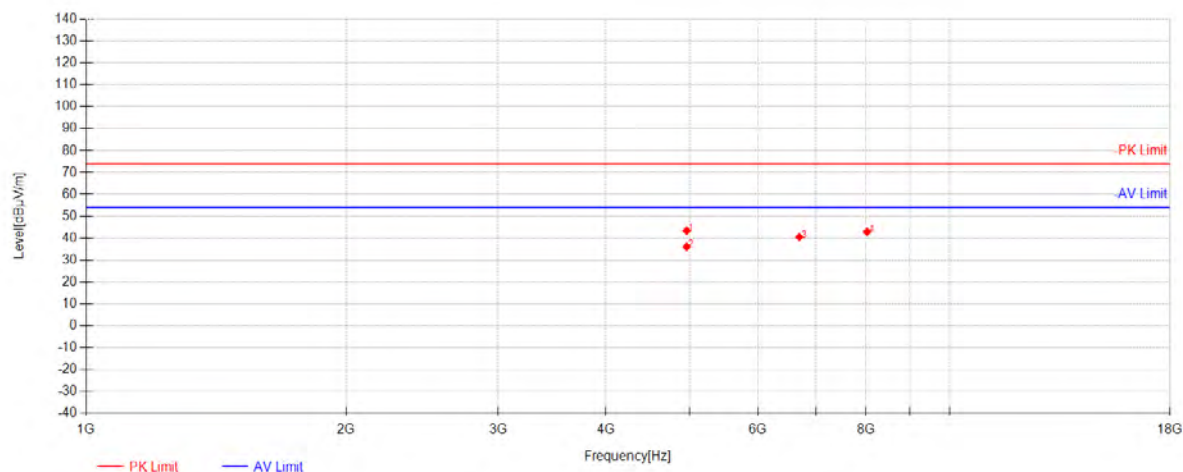
SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250400030901

Rev.: 01

Page: 83 of 128

BLE 2M_Channel 39



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	4959	57.67	31.33	-45.59	43.41	74.00	30.59	Horizontal
2	4959.375	50.26	31.34	-45.60	36.00	54.00	18.00	Horizontal
3	6697.5	49.84	34.46	-43.82	40.47	74.00	33.53	Horizontal
4	8023.5	47.90	37.09	-42.12	42.87	74.00	31.13	Horizontal



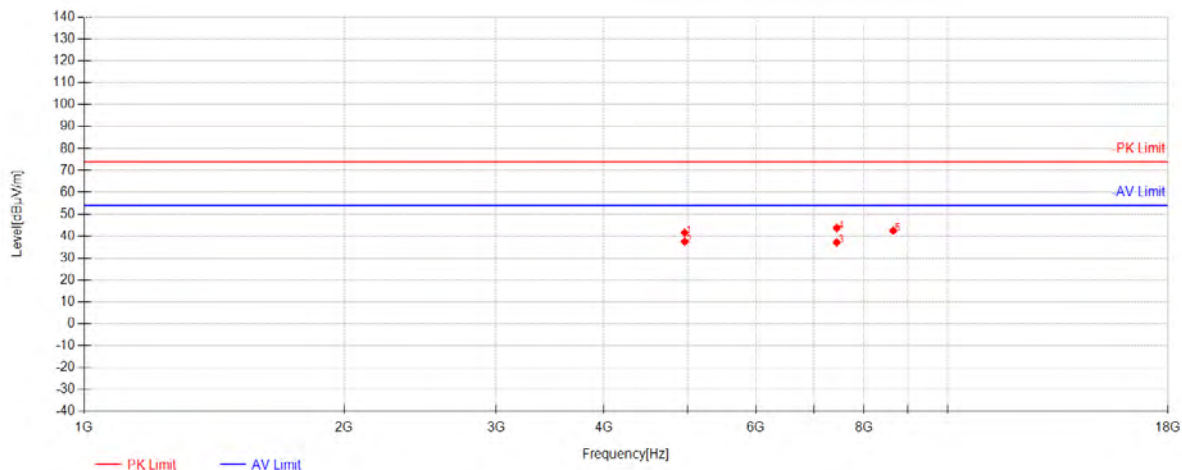
SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250400030901

Rev.: 01

Page: 84 of 128

BLE 2M_Channel 39



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	4959	55.75	31.33	-45.59	41.49	74.00	32.51	Vertical
2	4959.375	51.64	31.34	-45.60	37.38	54.00	16.62	Vertical
3	7438.875	44.12	36.23	-43.31	37.04	54.00	16.96	Vertical
4	7441.5	50.77	36.24	-43.30	43.71	74.00	30.29	Vertical
5	8650.875	47.29	36.71	-41.51	42.49	74.00	31.51	Vertical



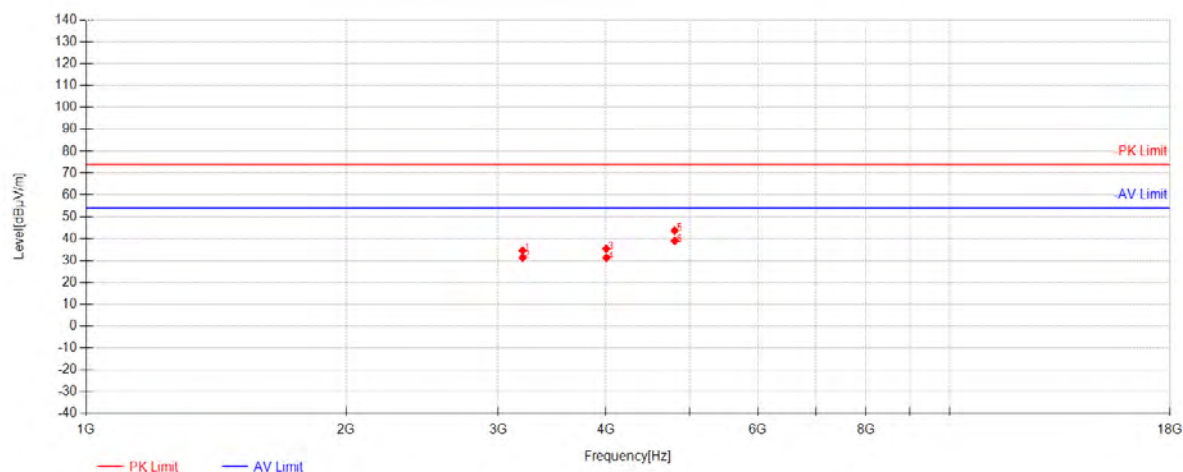
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Report No.: SUCR250400030901

Rev.: 01

Page: 85 of 128

MQM711-0-50-0U
BLE 1M_Channel 00



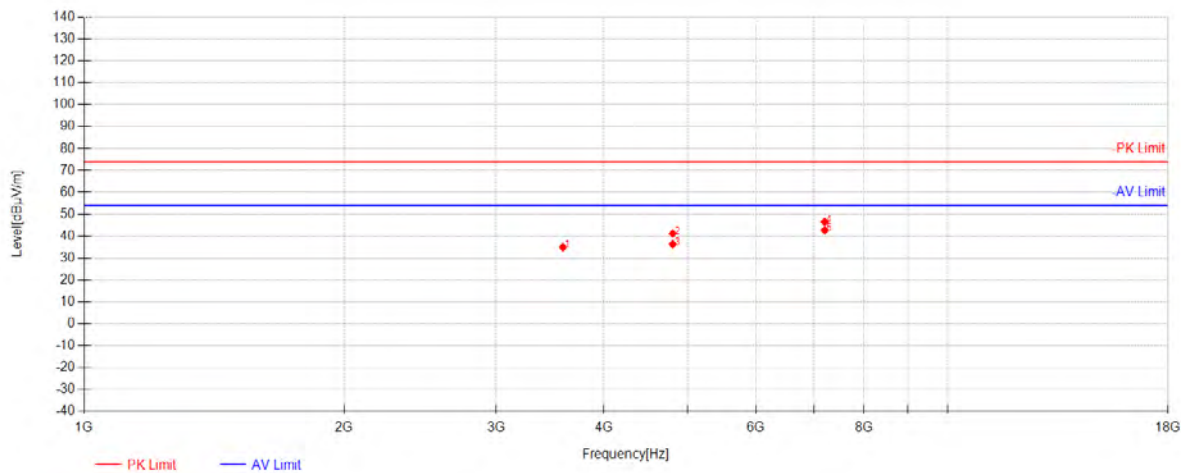
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1	3202.5	51.92	28.30	-45.75	34.47	74.00	39.53	Horizontal
2	3202.875	48.78	28.30	-45.75	31.33	54.00	22.67	Horizontal
3	4003.125	51.95	29.41	-46.03	35.33	74.00	38.67	Horizontal
4	4003.875	47.87	29.41	-46.03	31.25	54.00	22.75	Horizontal
5	4803.75	58.17	31.09	-45.54	43.72	74.00	30.28	Horizontal
6	4804.875	53.30	31.09	-45.54	38.85	54.00	15.15	Horizontal



SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250400030901
Rev.: 01
Page: 86 of 128

BLE 1M_Channel 00



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	3585	52.29	28.74	-46.15	34.88	74.00	39.12	Vertical
2	4804.5	55.58	31.09	-45.54	41.13	74.00	32.87	Vertical
3	4804.875	50.68	31.09	-45.54	36.23	54.00	17.77	Vertical
4	7205.25	54.34	35.57	-43.44	46.48	74.00	27.52	Vertical
5	7205.625	50.56	35.58	-43.44	42.70	54.00	11.30	Vertical



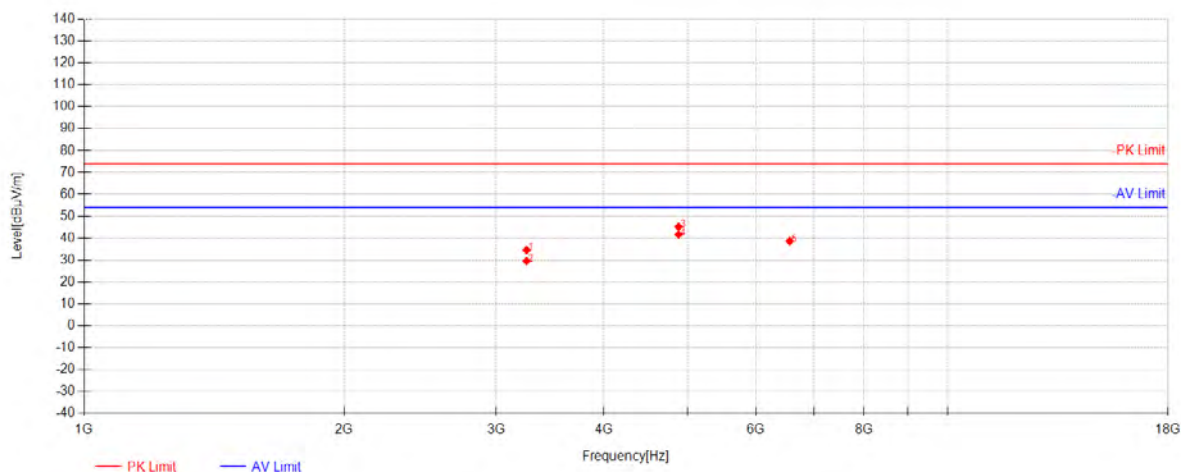
SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250400030901

Rev.: 01

Page: 87 of 128

BLE 1M_Channel 19



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	3253.5	52.27	28.35	-46.12	34.50	74.00	39.50	Horizontal
2	3253.5	47.29	28.35	-46.12	29.52	54.00	24.48	Horizontal
3	4879.875	59.46	31.21	-45.53	45.14	74.00	28.86	Horizontal
4	4879.875	55.91	31.21	-45.53	41.59	54.00	12.41	Horizontal
5	6562.875	48.74	34.21	-44.45	38.51	74.00	35.49	Horizontal



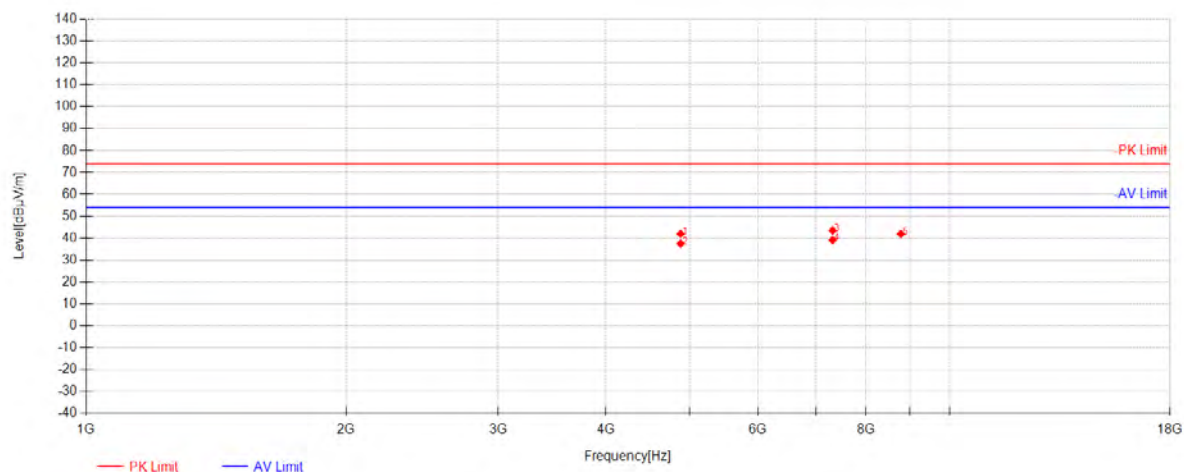
SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250400030901

Rev.: 01

Page: 88 of 128

BLE 1M_Channel 19



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	4880.625	56.28	31.21	-45.53	41.96	74.00	32.04	Vertical
2	4881	51.69	31.21	-45.53	37.37	54.00	16.63	Vertical
3	7319.25	51.31	35.89	-43.68	43.52	74.00	30.48	Vertical
4	7319.625	46.79	35.89	-43.68	39.00	54.00	15.00	Vertical
5	8782.125	46.62	36.63	-41.33	41.92	74.00	32.08	Vertical



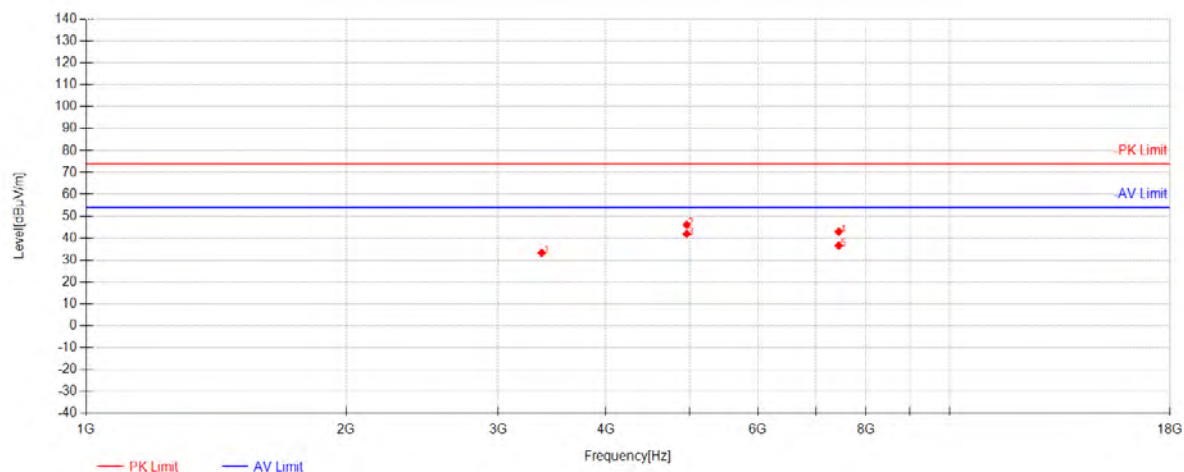
SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250400030901

Rev.: 01

Page: 89 of 128

BLE 1M_Channel 39



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	3369.75	51.11	28.47	-46.33	33.25	74.00	40.75	Horizontal
2	4960.125	60.31	31.34	-45.60	46.05	74.00	27.95	Horizontal
3	4960.125	56.14	31.34	-45.60	41.88	54.00	12.12	Horizontal
4	7438.875	49.99	36.23	-43.31	42.91	74.00	31.09	Horizontal
5	7440.375	43.55	36.23	-43.30	36.48	54.00	17.52	Horizontal



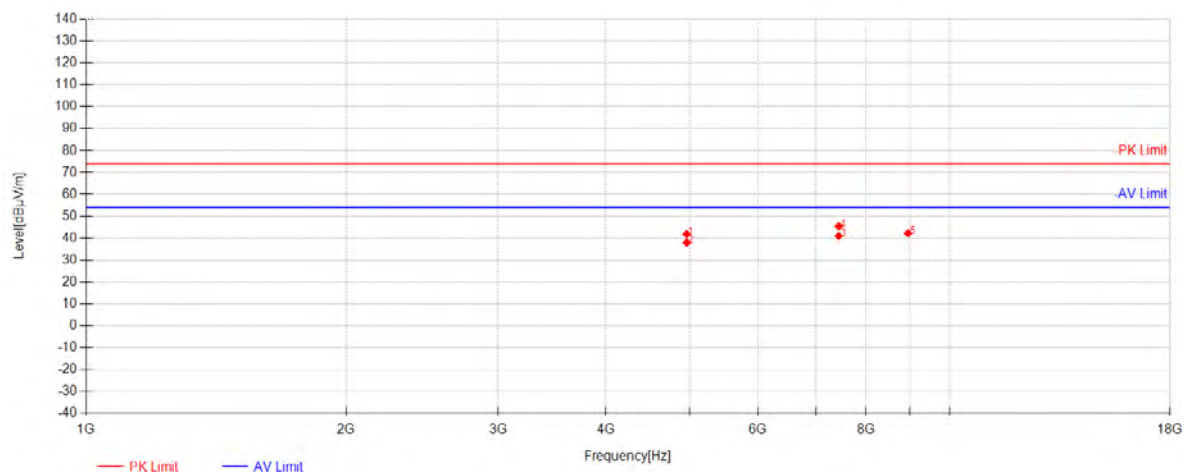
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Report No.: SUCR250400030901

Rev.: 01

Page: 90 of 128

BLE 1M_Channel 39



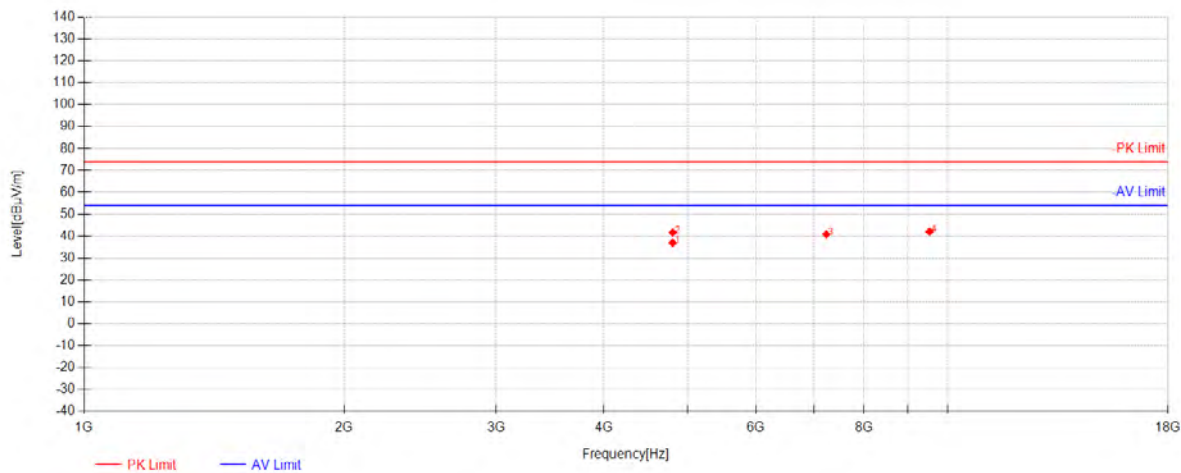
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	4959.75	56.06	31.34	-45.60	41.80	74.00	32.20	Vertical
2	4960.5	52.12	31.34	-45.60	37.86	54.00	16.14	Vertical
3	7440.75	48.00	36.23	-43.30	40.93	54.00	13.07	Vertical
4	7440.75	52.42	36.23	-43.30	45.35	74.00	28.65	Vertical
5	8949.75	46.82	36.53	-41.12	42.23	74.00	31.77	Vertical



SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250400030901
Rev.: 01
Page: 91 of 128

BLE 2M_Channel 00



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	4803.375	51.32	31.09	-45.54	36.87	54.00	17.13	Horizontal
2	4804.875	56.05	31.09	-45.54	41.60	74.00	32.40	Horizontal
3	7236	48.67	35.66	-43.54	40.79	74.00	33.21	Horizontal
4	9530.625	44.54	37.56	-40.06	42.04	74.00	31.96	Horizontal



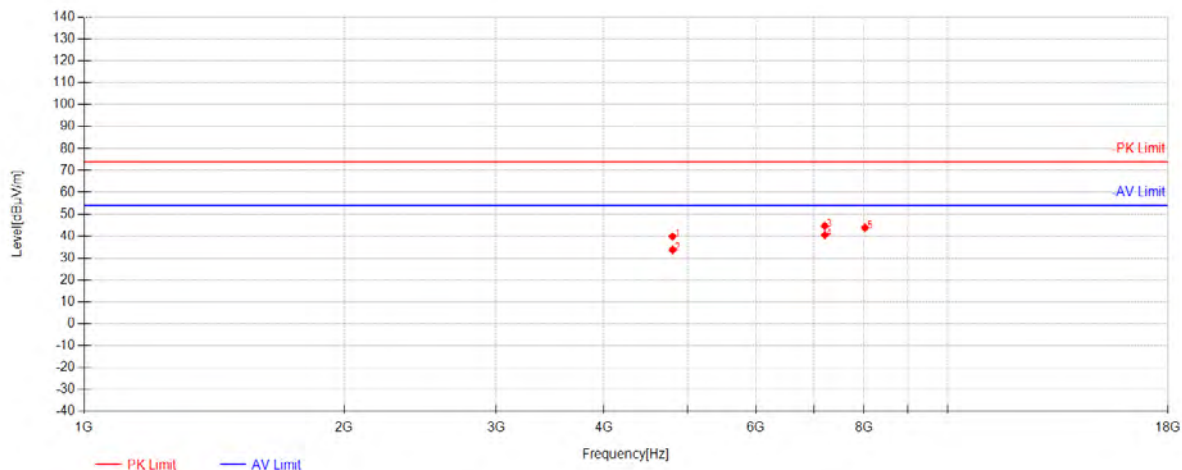
SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250400030901

Rev.: 01

Page: 92 of 128

BLE 2M_Channel 00



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	4803	54.20	31.08	-45.54	39.75	74.00	34.25	Vertical
2	4803.375	48.16	31.09	-45.54	33.71	54.00	20.29	Vertical
3	7207.125	52.51	35.58	-43.44	44.65	74.00	29.35	Vertical
4	7207.5	48.30	35.58	-43.44	40.44	54.00	13.56	Vertical
5	8023.125	48.86	37.09	-42.12	43.83	74.00	30.17	Vertical



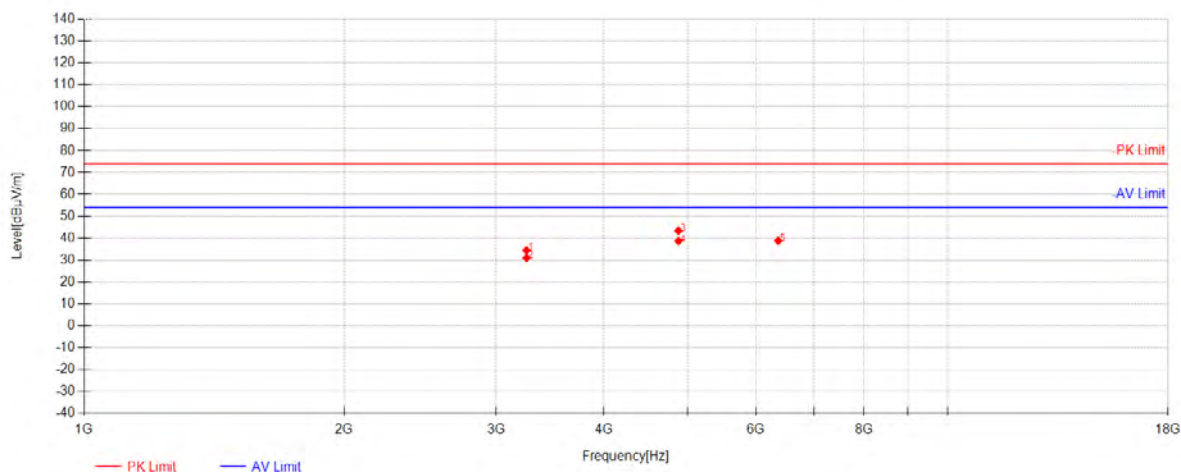
SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250400030901

Rev.: 01

Page: 93 of 128

BLE 2M_Channel 19



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	3253.125	52.12	28.35	-46.12	34.36	74.00	39.64	Horizontal
2	3253.5	48.71	28.35	-46.12	30.94	54.00	23.06	Horizontal
3	4878.75	57.72	31.21	-45.53	43.39	74.00	30.61	Horizontal
4	4879.125	52.87	31.21	-45.53	38.54	54.00	15.46	Horizontal
5	6364.875	49.49	33.64	-44.46	38.67	74.00	35.33	Horizontal



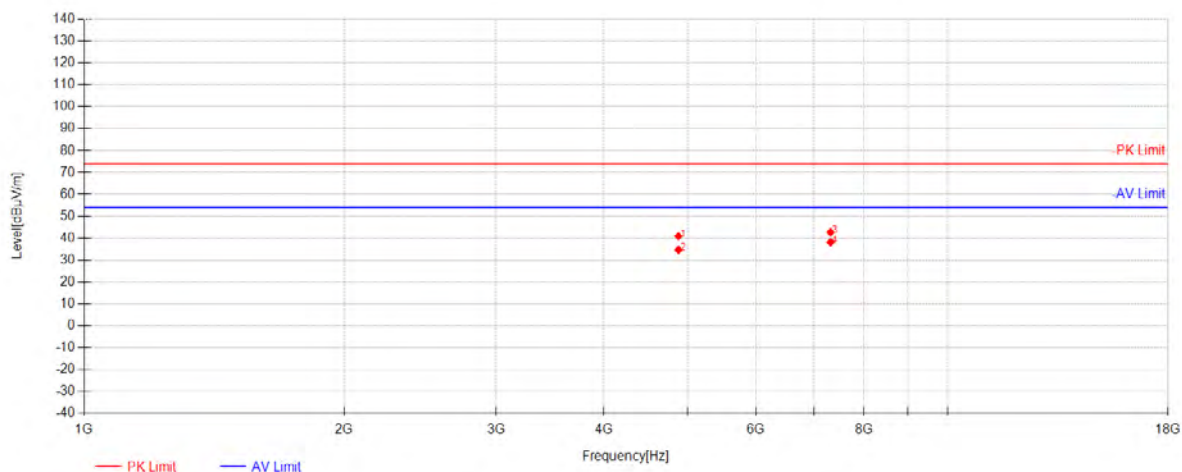
SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250400030901

Rev.: 01

Page: 94 of 128

BLE 2M_Channel 19



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	4878.75	55.18	31.21	-45.53	40.85	74.00	33.15	Vertical
2	4879.125	48.94	31.21	-45.53	34.61	54.00	19.39	Vertical
3	7318.5	50.46	35.89	-43.69	42.66	74.00	31.34	Vertical
4	7318.875	45.82	35.89	-43.69	38.03	54.00	15.97	Vertical



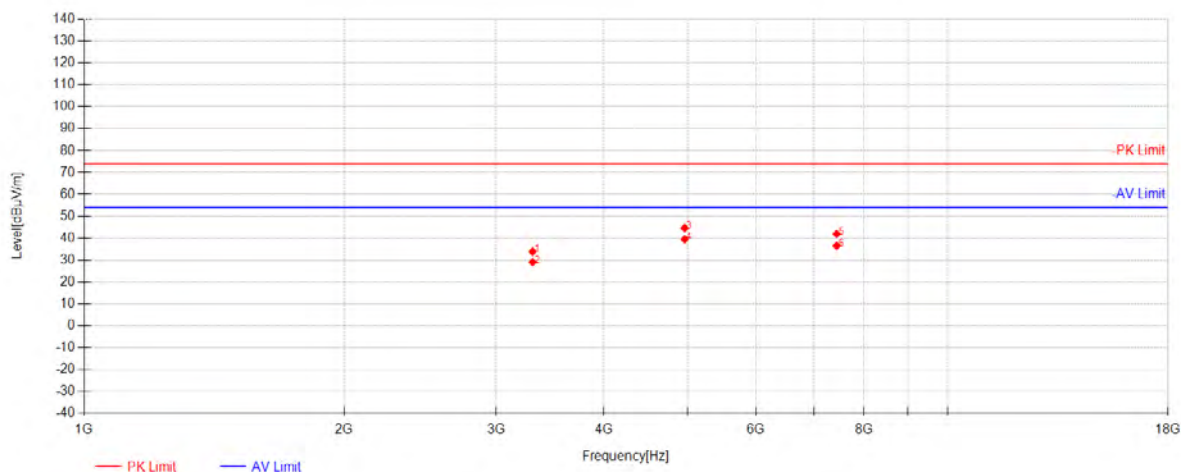
SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250400030901

Rev.: 01

Page: 95 of 128

BLE 2M_Channel 39



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	3306.75	51.86	28.41	-46.45	33.82	74.00	40.18	Horizontal
2	3306.75	46.99	28.41	-46.45	28.95	54.00	25.05	Horizontal
3	4959	58.87	31.33	-45.59	44.61	74.00	29.39	Horizontal
4	4959.75	53.63	31.34	-45.60	39.37	54.00	14.63	Horizontal
5	7438.5	48.99	36.23	-43.31	41.91	74.00	32.09	Horizontal
6	7438.875	43.49	36.23	-43.31	36.41	54.00	17.59	Horizontal



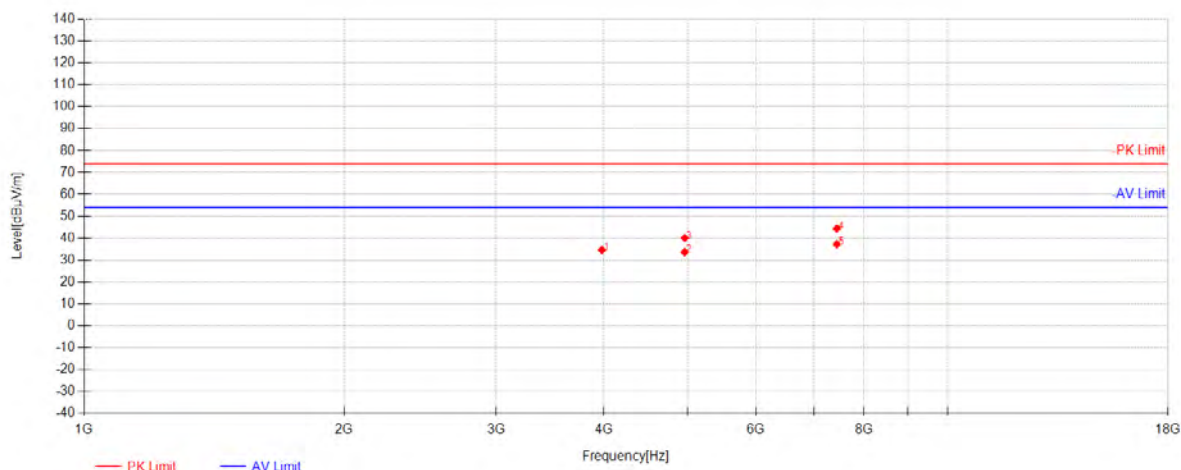
SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250400030901

Rev.: 01

Page: 96 of 128

BLE 2M_Channel 39



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	3977.625	51.27	29.36	-46.09	34.54	74.00	39.46	Vertical
2	4959.375	47.86	31.34	-45.60	33.60	54.00	20.40	Vertical
3	4960.875	54.23	31.34	-45.60	39.97	74.00	34.03	Vertical
4	7441.5	51.42	36.24	-43.30	44.36	74.00	29.64	Vertical
5	7441.875	44.17	36.24	-43.30	37.11	54.00	16.89	Vertical

Remark:

- 3) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier gain. The basic equation with a sample calculation is as follows:

Value = Reading(dBμV) + AF(dB/m) + Factor(dB):

AF = Antenna Factor(dB/m)

Factor = Cable Factor(dB) - Preamplifier gain(dB)

Margin = Limit(dBμV/m) – Value(dBμV/m)

- 4) All channels have been tested, but only the worst case data displayed in this report.



SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250400030901

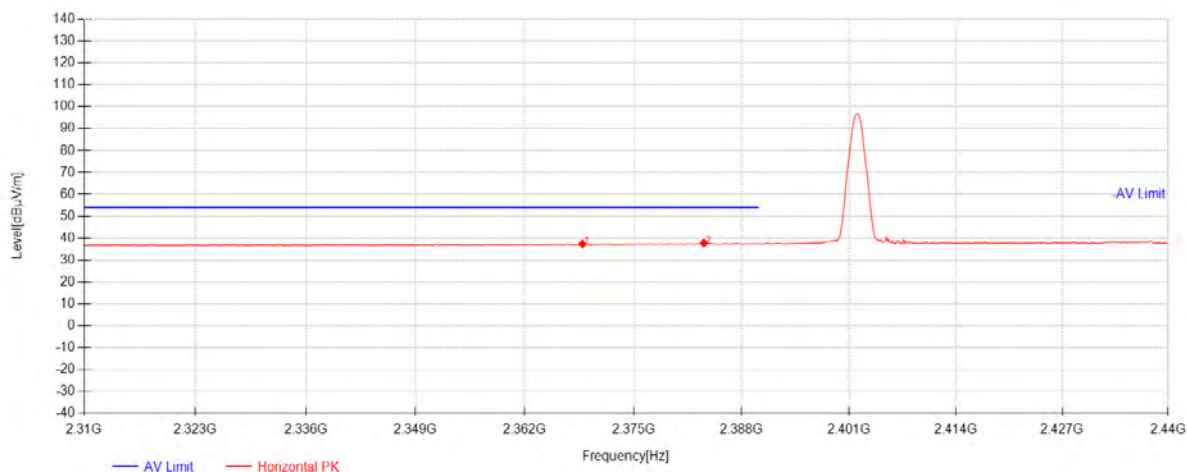
Rev.: 01

Page: 97 of 128

Restricted bands around fundamental frequency

MQM711-0-50-0B

BLE 1M_Channel 00



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2368.89	33.87	26.94	-23.57	37.23	54.00	16.77	Horizontal
2	2383.45	34.23	26.97	-23.57	37.63	54.00	16.37	Horizontal



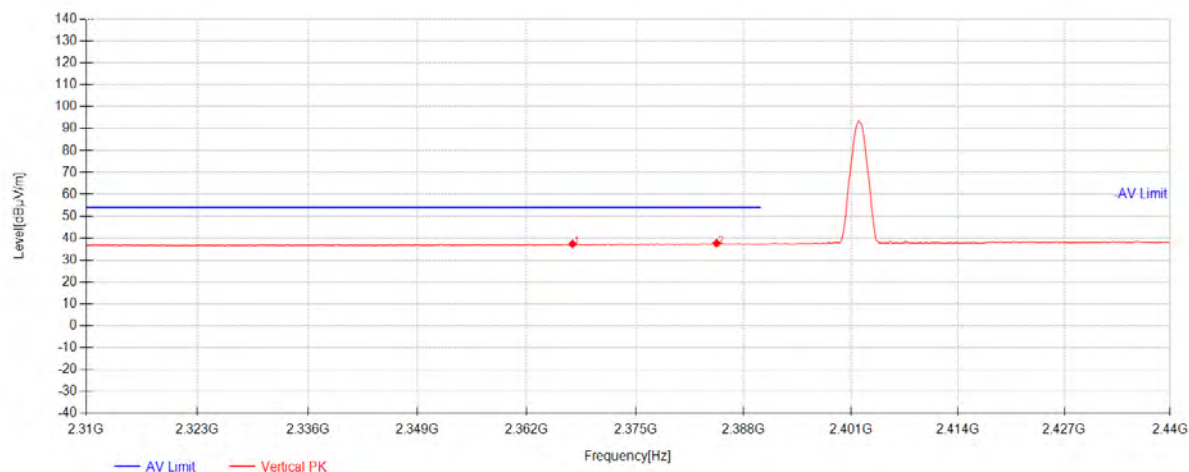
SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250400030901

Rev.: 01

Page: 98 of 128

BLE 1M_Channel 00



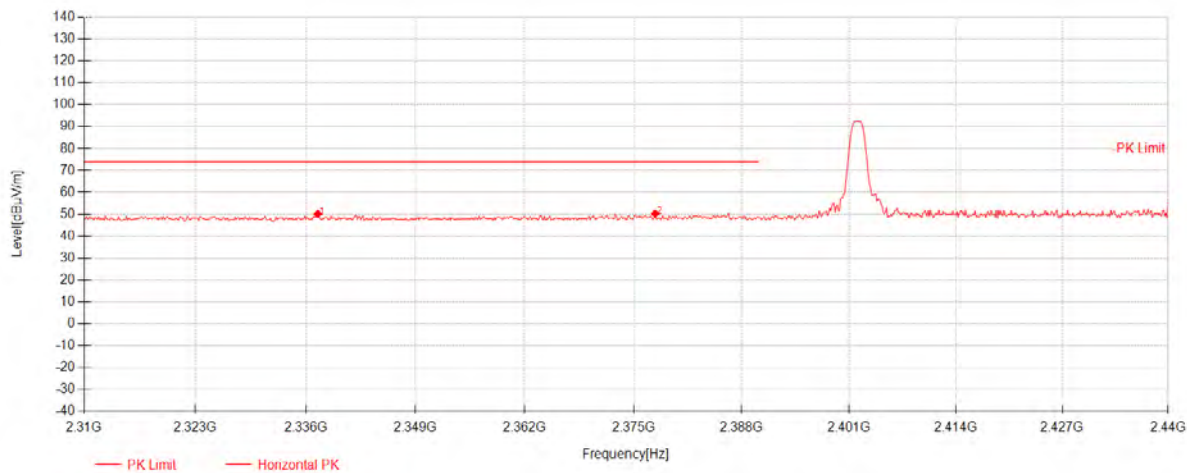
Data List								
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1	2367.46	33.87	26.93	-23.57	37.23	54.00	16.77	Vertical
2	2384.75	34.13	26.97	-23.57	37.53	54.00	16.47	Vertical



SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250400030901
Rev.: 01
Page: 99 of 128

BLE 1M_Channel 00



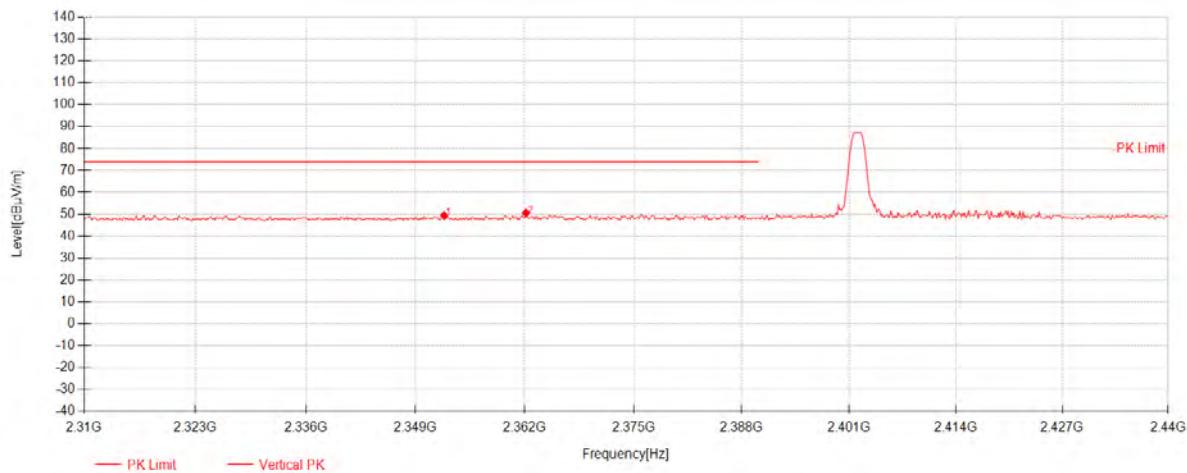
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1	2337.43	46.76	26.87	-23.58	50.06	74.00	23.94	Horizontal
2	2377.6	46.79	26.96	-23.57	50.17	74.00	23.83	Horizontal



SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250400030901
Rev.: 01
Page: 100 of 128

BLE 1M_Channel 00



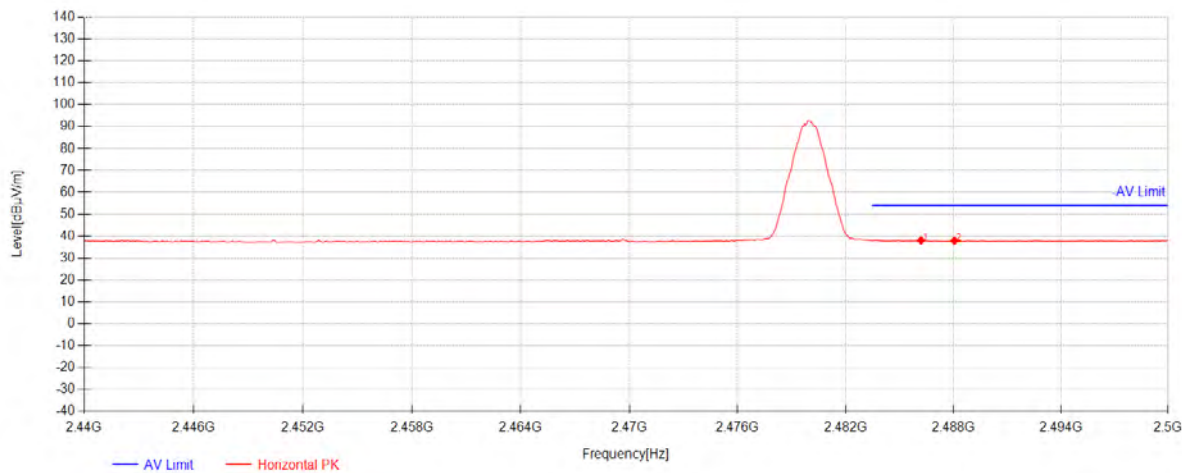
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1	2352.38	46.02	26.90	-23.57	49.35	74.00	24.65	Vertical
2	2362.13	47.17	26.92	-23.57	50.52	74.00	23.48	Vertical



SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250400030901
Rev.: 01
Page: 101 of 128

BLE 1M_Channel 39



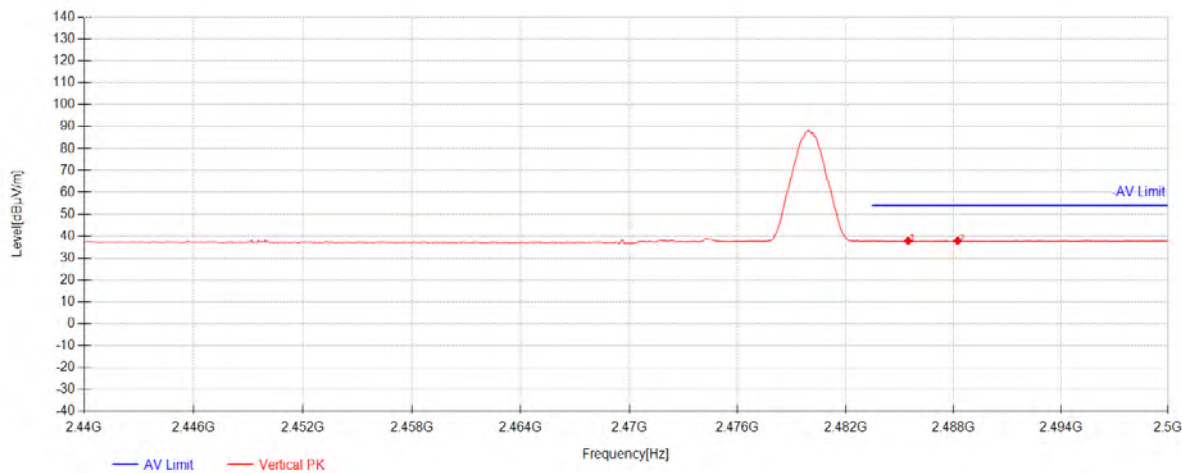
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1	2486.2	34.33	27.17	-23.54	37.96	54.00	16.04	Horizontal
2	2488.06	34.18	27.18	-23.54	37.81	54.00	16.19	Horizontal



SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250400030901
Rev.: 01
Page: 102 of 128

BLE 1M_Channel 39



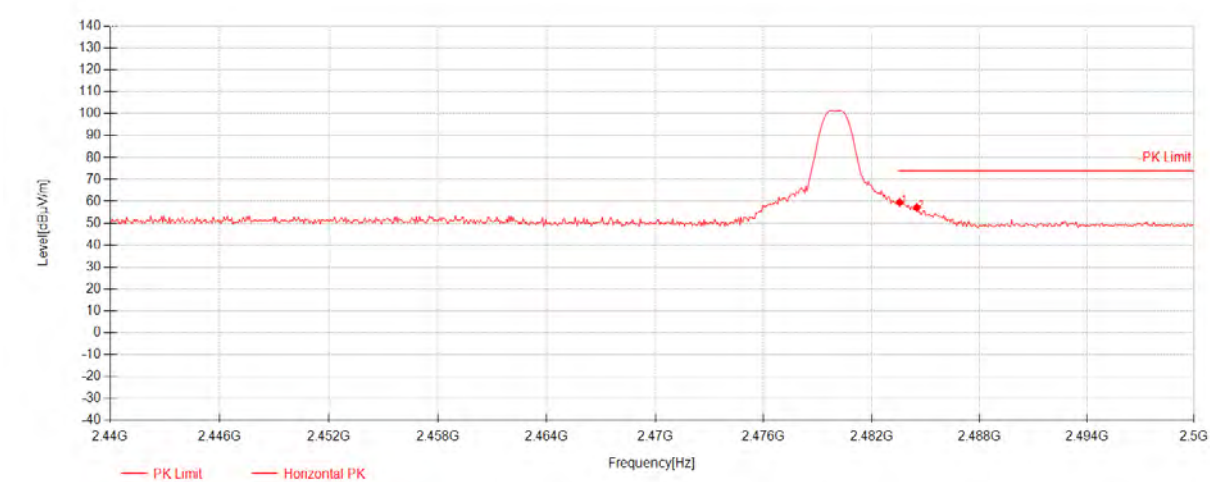
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1	2485.48	34.12	27.17	-23.54	37.75	54.00	16.25	Vertical
2	2488.24	34.13	27.18	-23.54	37.76	54.00	16.24	Vertical



SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250400030901
Rev.: 01
Page: 103 of 128

BLE 1M_Channel 39



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2483.56	55.88	27.17	-23.54	59.50	74.00	14.50	Horizontal
2	2484.52	53.58	27.17	-23.54	57.20	74.00	16.80	Horizontal



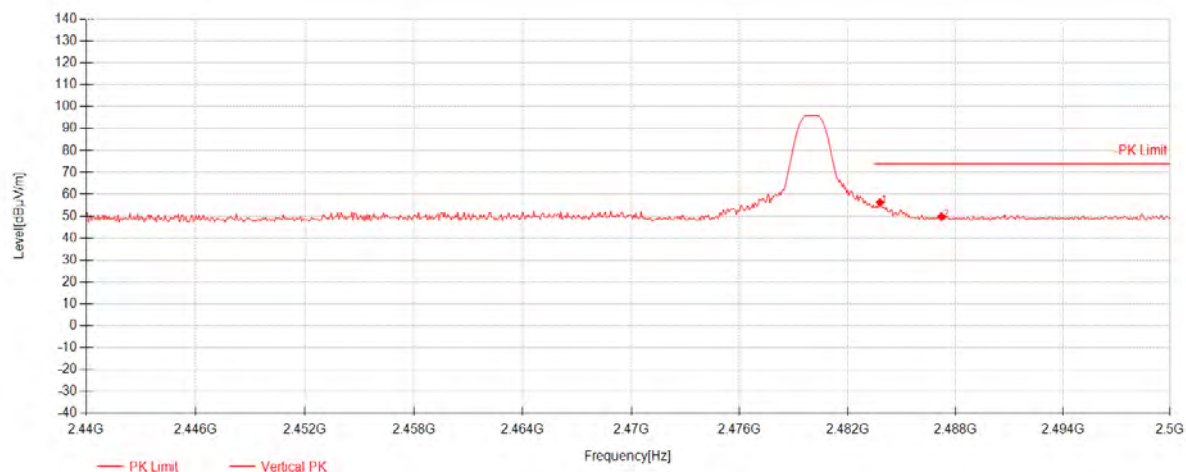
SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250400030901

Rev.: 01

Page: 104 of 128

BLE 1M_Channel 39



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2483.8	52.69	27.17	-23.54	56.31	74.00	17.69	Vertical
2	2487.22	46.12	27.17	-23.54	49.75	74.00	24.25	Vertical



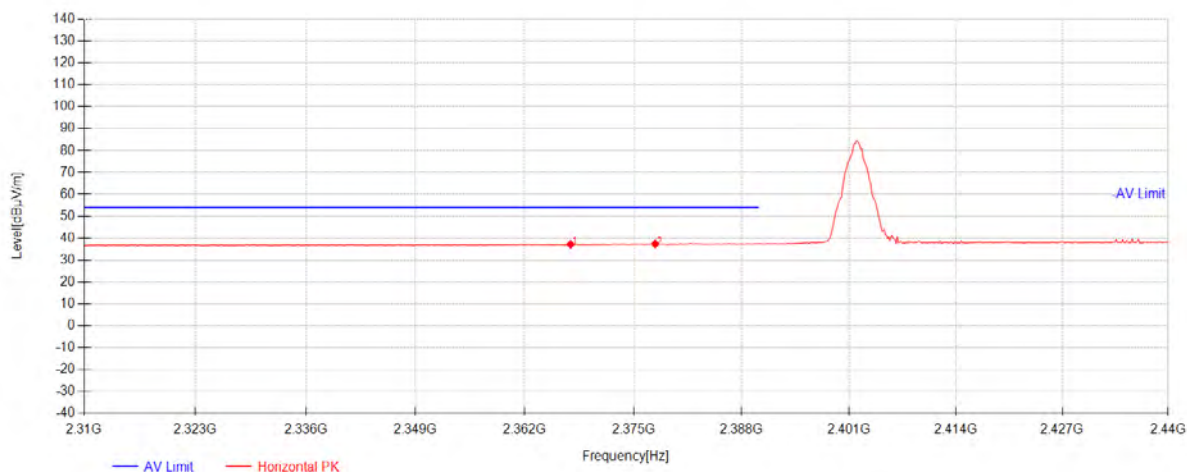
SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250400030901

Rev.: 01

Page: 105 of 128

BLE 2M_Channel 00



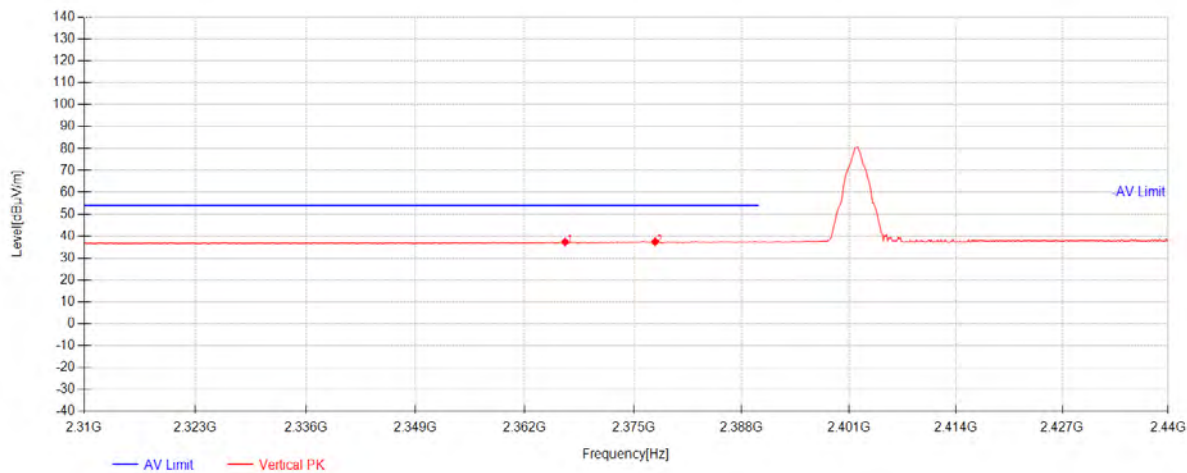
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1	2367.46	33.71	26.93	-23.57	37.07	54.00	16.93	Horizontal
2	2377.6	33.86	26.96	-23.57	37.24	54.00	16.76	Horizontal



SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250400030901
Rev.: 01
Page: 106 of 128

BLE 2M_Channel 00



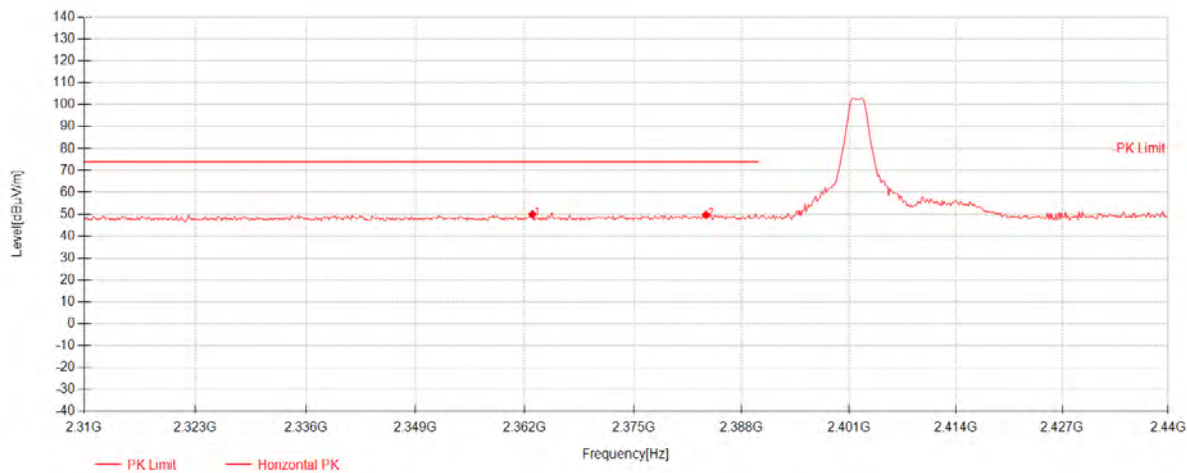
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NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2366.81	33.86	26.93	-23.57	37.22	54.00	16.78	Vertical
2	2377.6	33.93	26.96	-23.57	37.31	54.00	16.69	Vertical



SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250400030901
Rev.: 01
Page: 107 of 128

BLE 2M_Channel 00



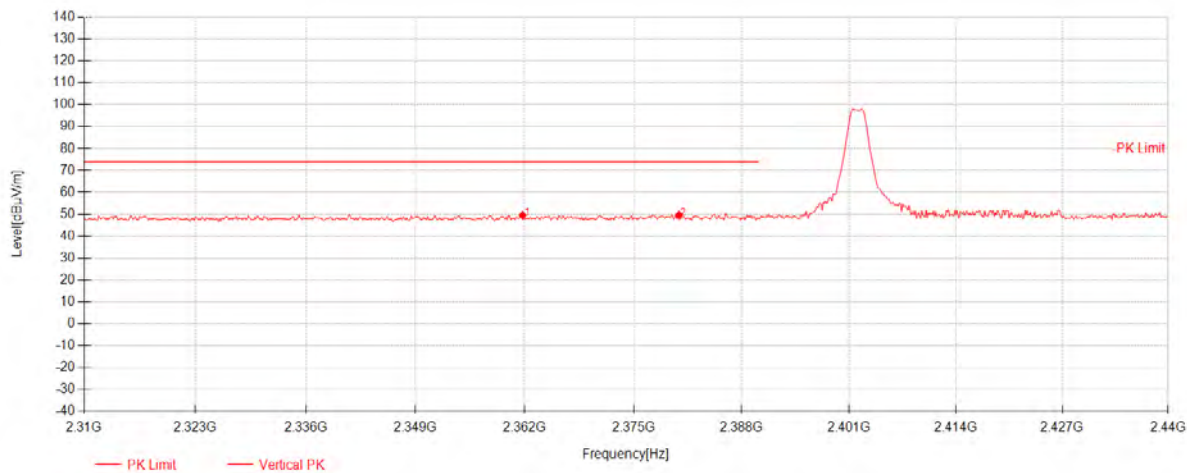
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2362.91	46.49	26.93	-23.57	49.84	74.00	24.16	Horizontal
2	2383.71	46.22	26.97	-23.57	49.62	74.00	24.38	Horizontal



SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250400030901
Rev.: 01
Page: 108 of 128

BLE 2M_Channel 00



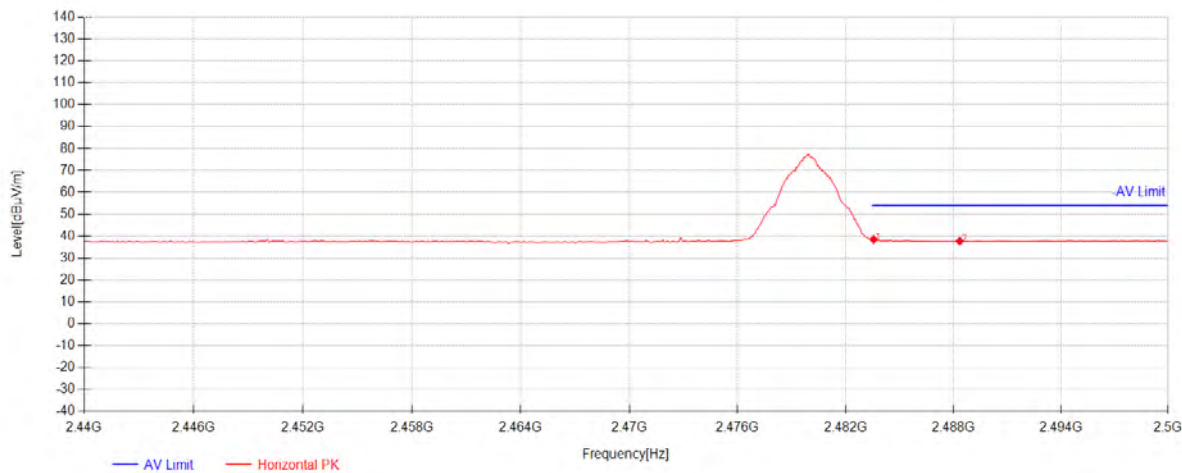
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1	2361.74	46.07	26.92	-23.57	49.42	74.00	24.58	Vertical
2	2380.46	46.13	26.96	-23.57	49.52	74.00	24.48	Vertical



SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250400030901
Rev.: 01
Page: 109 of 128

BLE 2M_Channel 39



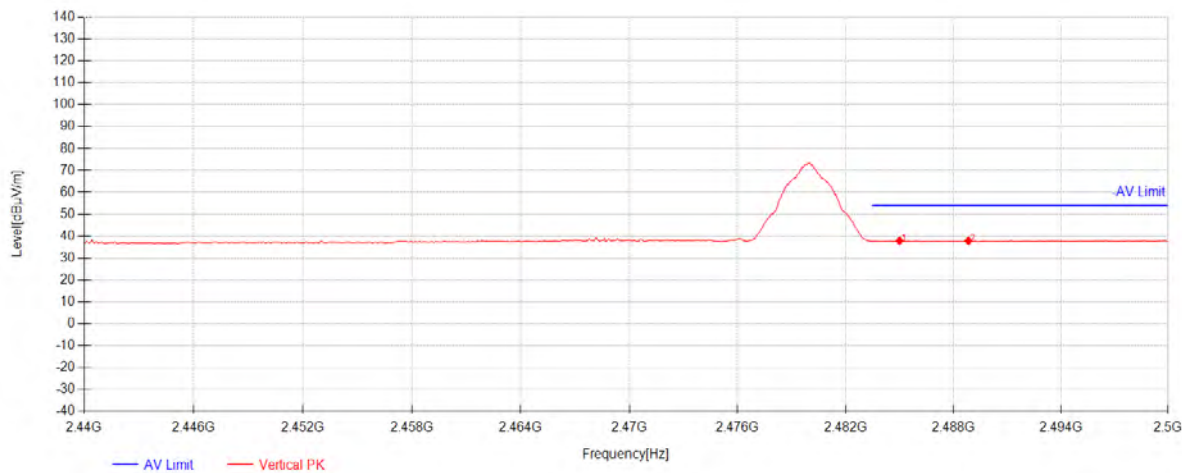
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1	2483.56	34.74	27.17	-23.54	38.36	54.00	15.64	Horizontal
2	2488.36	33.97	27.18	-23.54	37.60	54.00	16.40	Horizontal



SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250400030901
Rev.: 01
Page: 110 of 128

BLE 2M_Channel 39



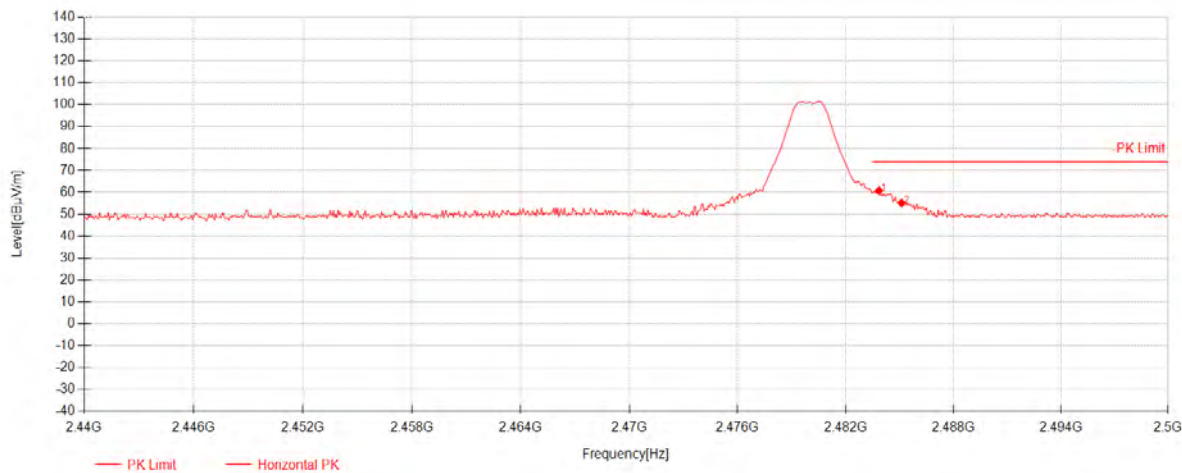
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1	2485	34.12	27.17	-23.54	37.75	54.00	16.25	Vertical
2	2488.84	34.10	27.18	-23.54	37.73	54.00	16.27	Vertical



SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250400030901
Rev.: 01
Page: 111 of 128

BLE 2M_Channel 39



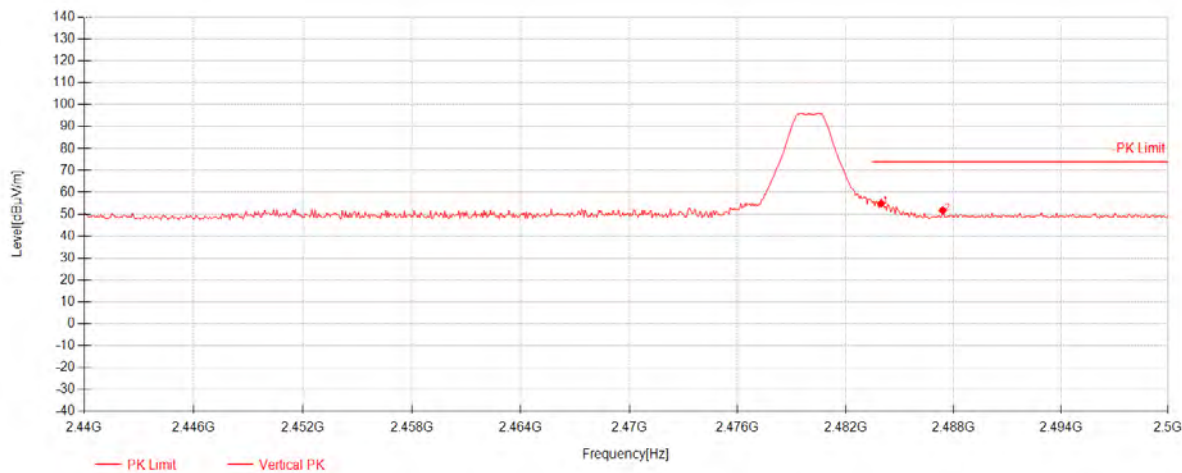
Data List								
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1	2483.86	57.11	27.17	-23.54	60.73	74.00	13.27	Horizontal
2	2485.12	51.51	27.17	-23.54	55.14	74.00	18.86	Horizontal



SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250400030901
Rev.: 01
Page: 112 of 128

BLE 2M_Channel 39



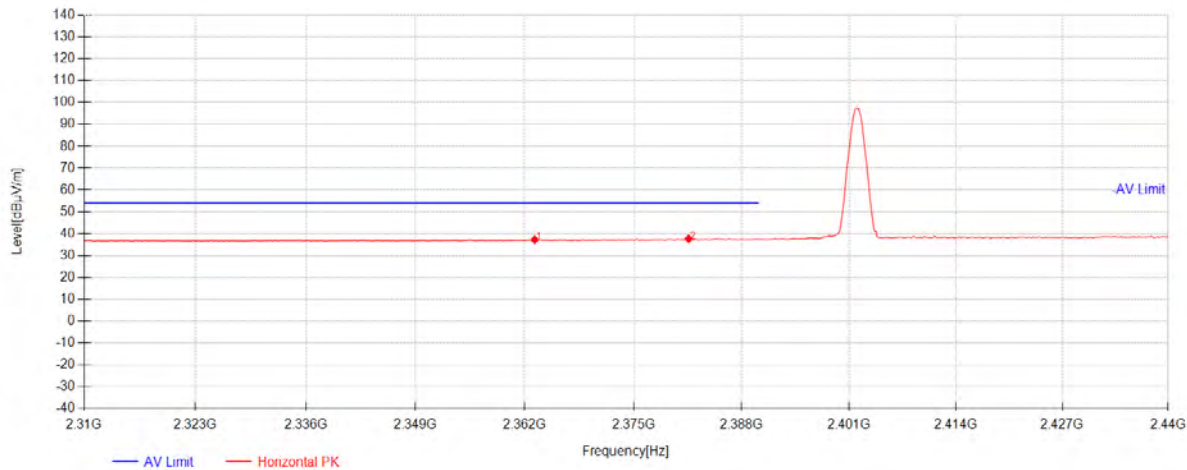
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1	2483.98	51.37	27.17	-23.54	54.99	74.00	19.01	Vertical
2	2487.4	48.04	27.17	-23.54	51.67	74.00	22.33	Vertical



SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250400030901
Rev.: 01
Page: 113 of 128

MQM711-0-50-0U
BLE 1M_Channel 00



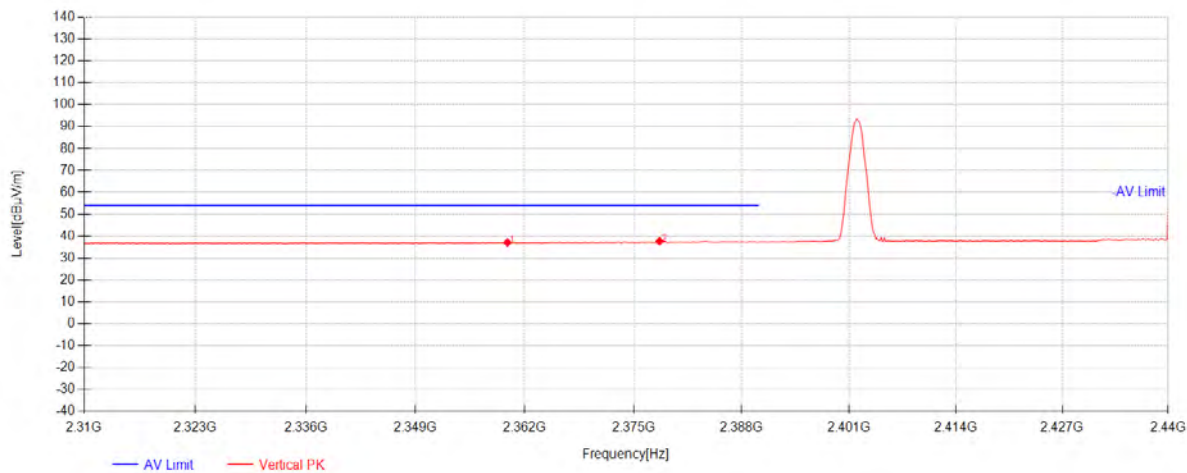
Data List								
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1	2363.17	33.81	26.93	-23.57	37.16	54.00	16.84	Horizontal
2	2381.63	34.16	26.96	-23.57	37.55	54.00	16.45	Horizontal



SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250400030901
Rev.: 01
Page: 114 of 128

BLE 1M_Channel 00



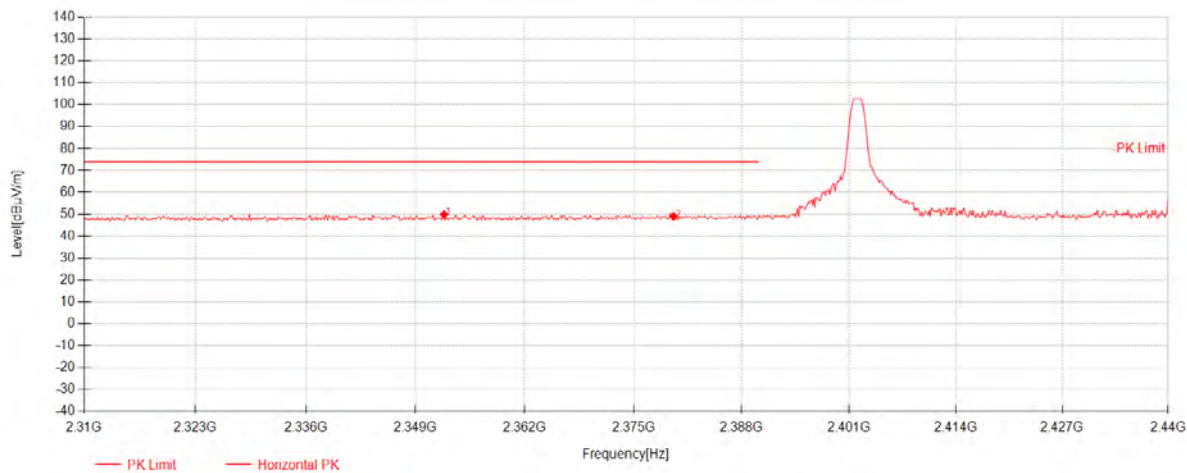
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1	2359.92	33.65	26.92	-23.57	37.00	54.00	17.00	Vertical
2	2378.12	34.18	26.96	-23.57	37.56	54.00	16.44	Vertical



SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250400030901
Rev.: 01
Page: 115 of 128

BLE 1M_Channel 00



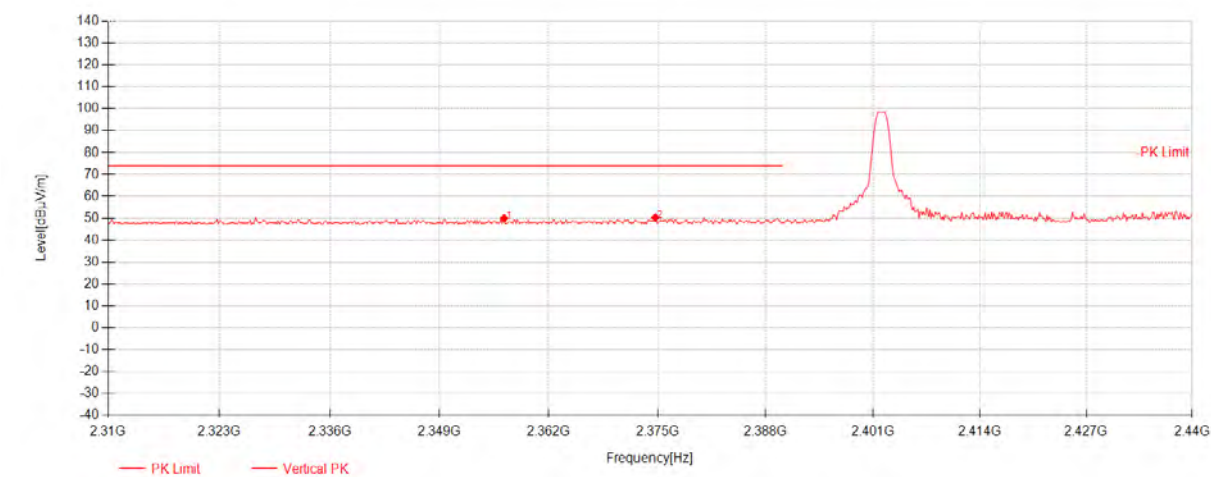
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1	2352.38	46.44	26.90	-23.57	49.77	74.00	24.23	Horizontal
2	2379.81	45.54	26.96	-23.57	48.93	74.00	25.07	Horizontal



SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250400030901
Rev.: 01
Page: 116 of 128

BLE 1M_Channel 00



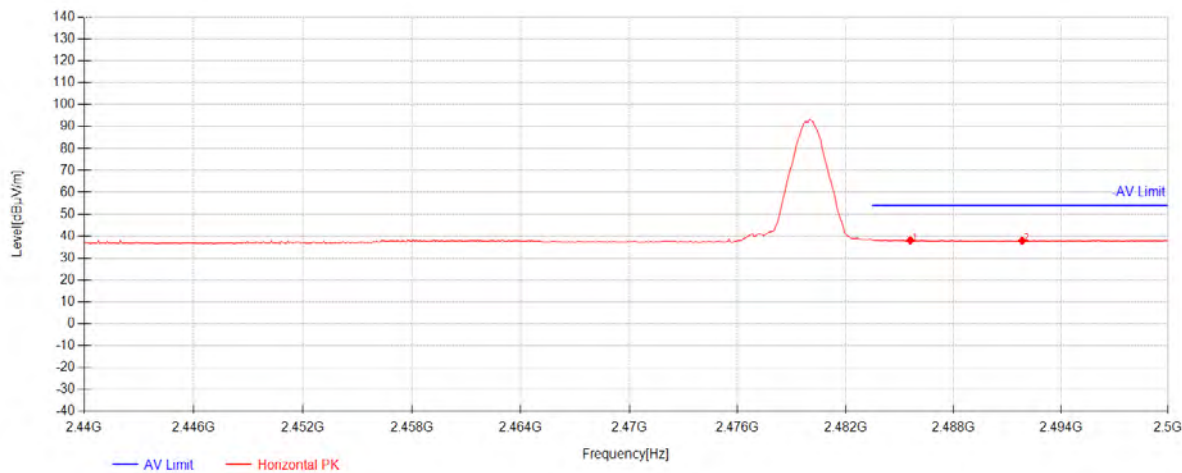
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2356.67	46.53	26.91	-23.57	49.87	74.00	24.13	Vertical
2	2374.74	46.85	26.95	-23.57	50.23	74.00	23.77	Vertical



SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250400030901
Rev.: 01
Page: 117 of 128

BLE 1M_Channel 39



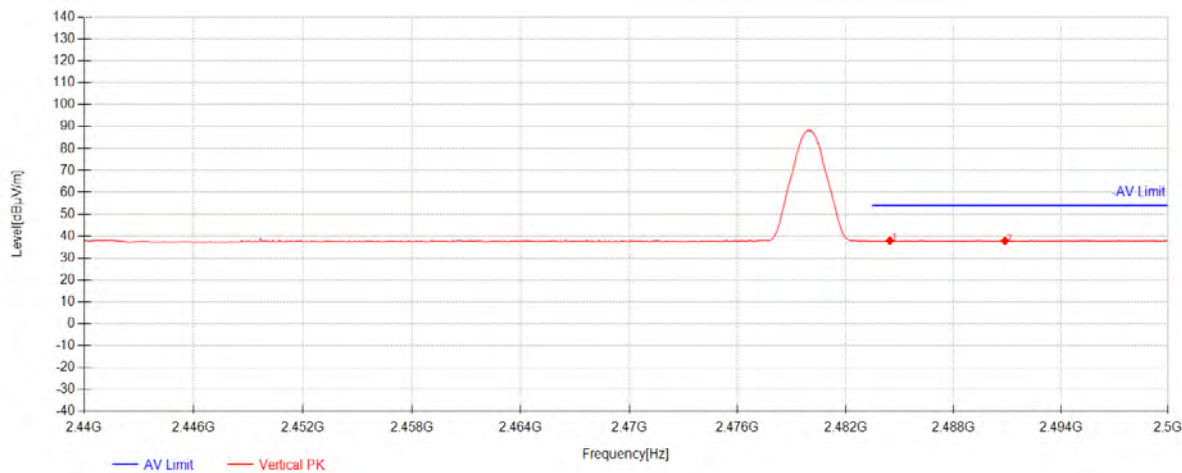
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2485.6	34.33	27.17	-23.54	37.96	54.00	16.04	Horizontal
2	2491.84	34.16	27.18	-23.54	37.80	54.00	16.20	Horizontal



SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250400030901
Rev.: 01
Page: 118 of 128

BLE 1M_Channel 39



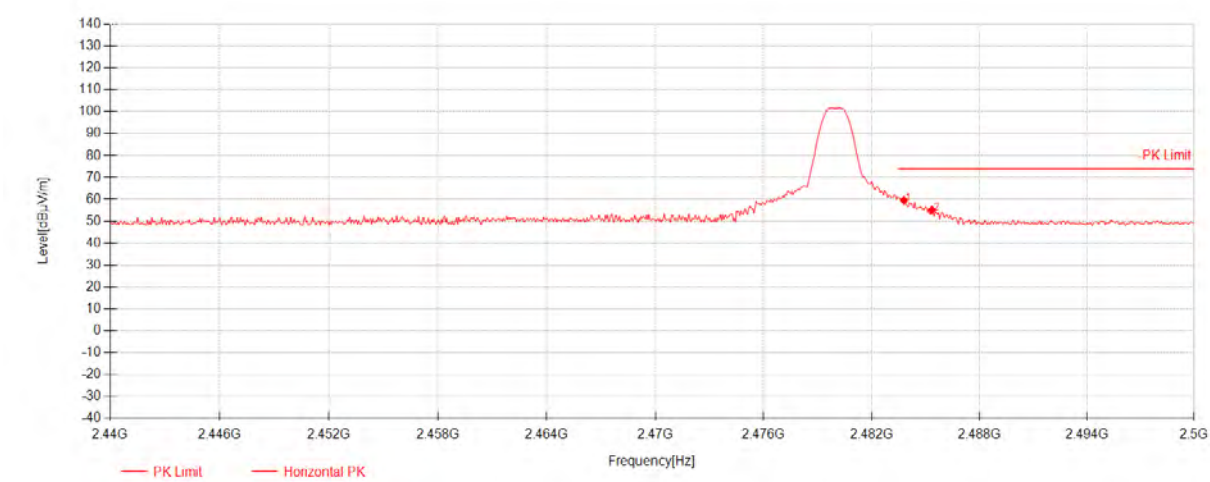
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2484.46	34.23	27.17	-23.54	37.85	54.00	16.15	Vertical
2	2490.88	34.07	27.18	-23.54	37.71	54.00	16.29	Vertical



SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250400030901
Rev.: 01
Page: 119 of 128

BLE 1M_Channel 39



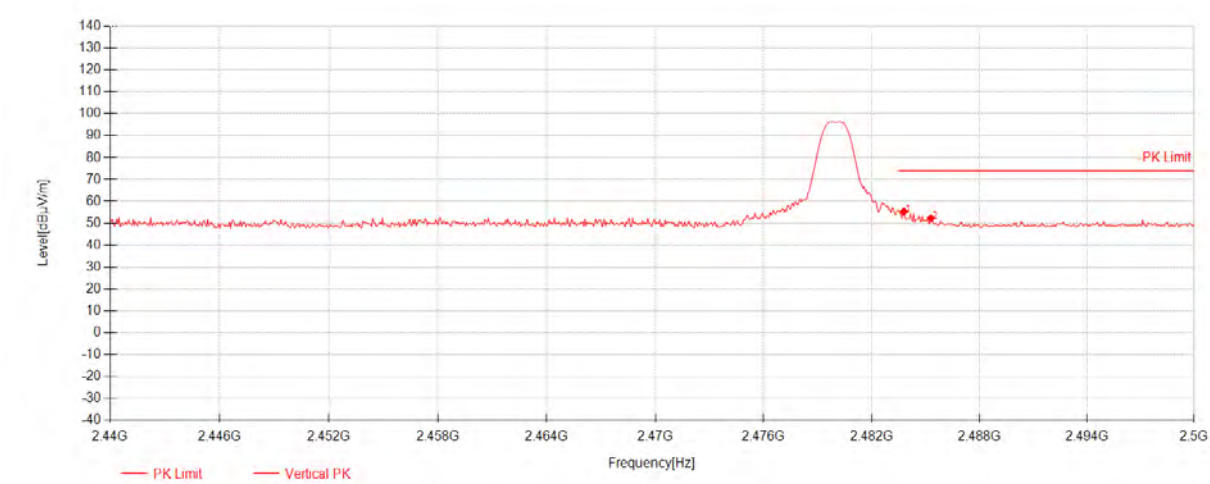
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NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2483.8	55.88	27.17	-23.54	59.50	74.00	14.50	Horizontal
2	2485.36	51.60	27.17	-23.54	55.23	74.00	18.77	Horizontal



SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250400030901
Rev.: 01
Page: 120 of 128

BLE 1M_Channel 39



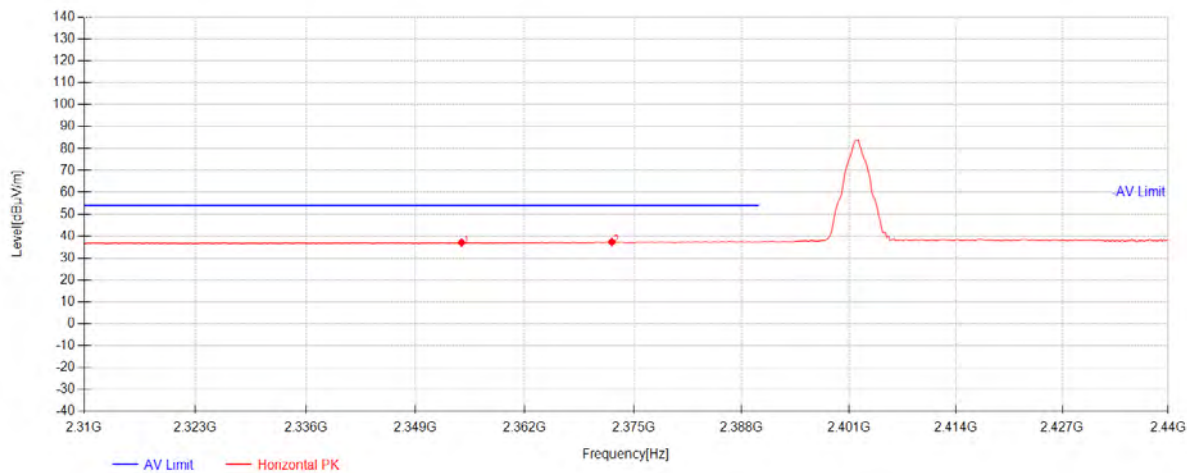
Data List								
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1	2483.8	51.74	27.17	-23.54	55.36	74.00	18.64	Vertical
2	2485.3	48.56	27.17	-23.54	52.19	74.00	21.81	Vertical



SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250400030901
Rev.: 01
Page: 121 of 128

BLE 2M_Channel 00



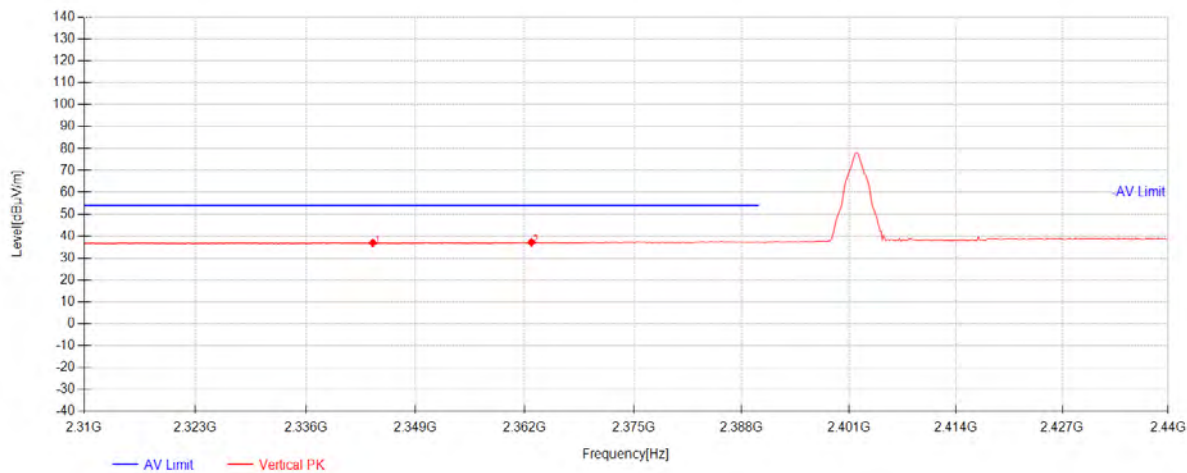
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1	2354.46	33.65	26.91	-23.57	36.98	54.00	17.02	Horizontal
2	2372.4	33.83	26.94	-23.57	37.20	54.00	16.80	Horizontal



SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250400030901
Rev.: 01
Page: 122 of 128

BLE 2M_Channel 00



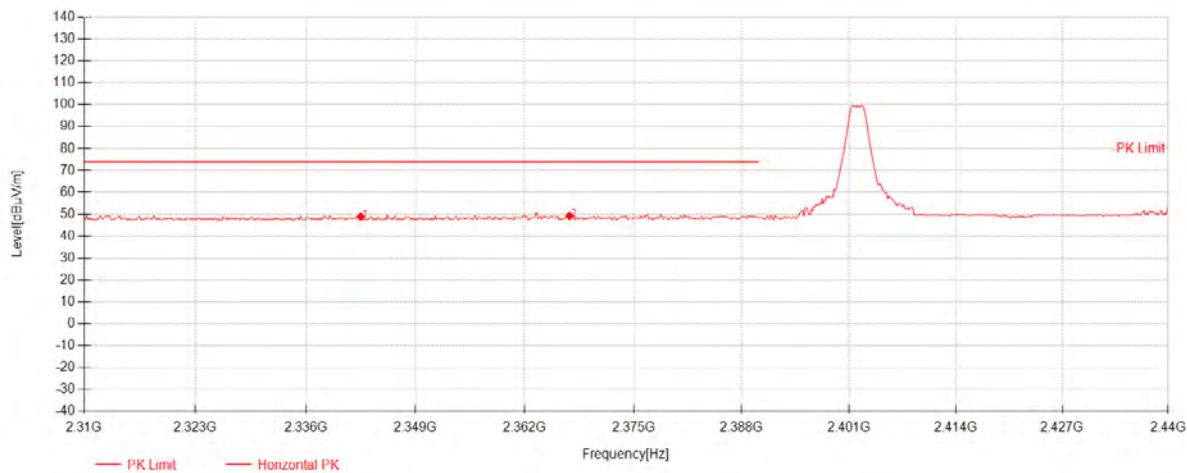
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2343.93	33.53	26.89	-23.58	36.84	54.00	17.16	Vertical
2	2362.78	33.71	26.93	-23.57	37.06	54.00	16.94	Vertical



SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250400030901
Rev.: 01
Page: 123 of 128

BLE 2M_Channel 00



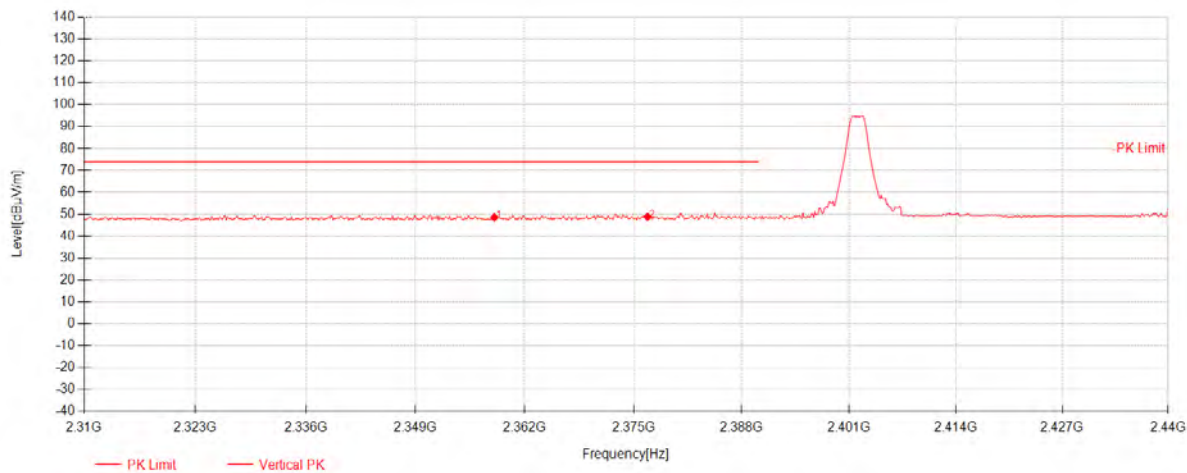
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2342.5	45.53	26.89	-23.58	48.84	74.00	25.16	Horizontal
2	2367.33	45.84	26.93	-23.57	49.20	74.00	24.80	Horizontal



SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250400030901
Rev.: 01
Page: 124 of 128

BLE 2M_Channel 00



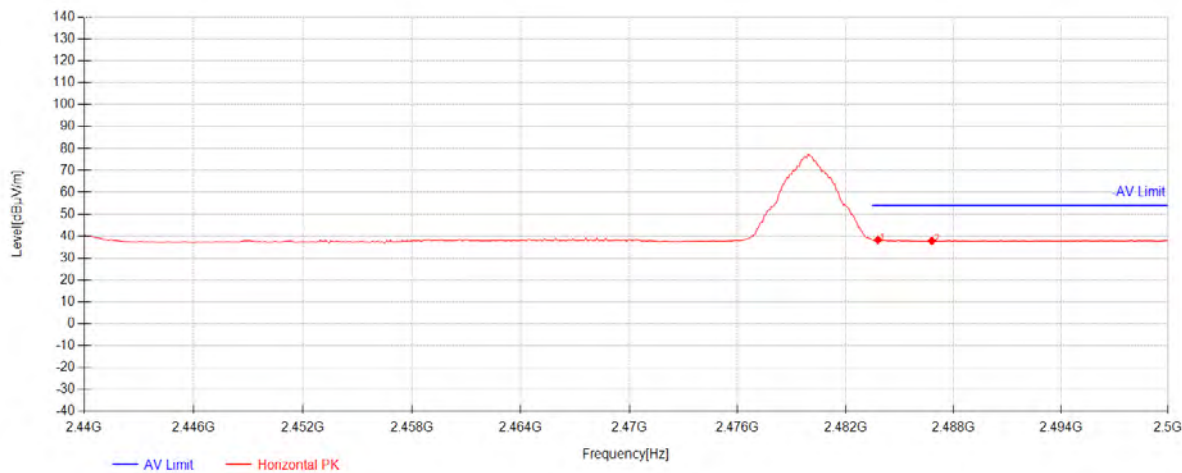
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2358.36	45.19	26.92	-23.57	48.53	74.00	25.47	Vertical
2	2376.69	45.35	26.95	-23.57	48.73	74.00	25.27	Vertical



SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250400030901
Rev.: 01
Page: 125 of 128

BLE 2M_Channel 39



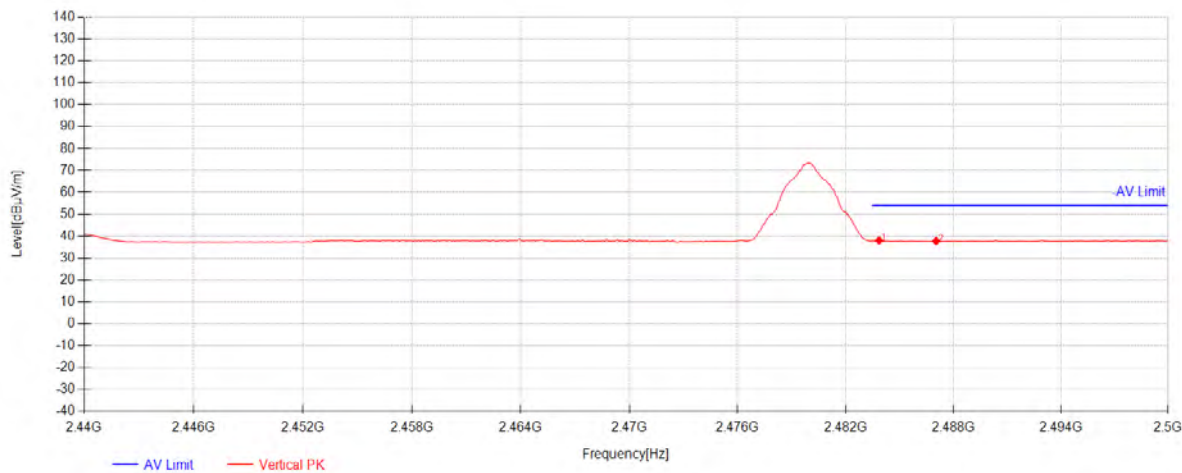
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NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2483.8	34.54	27.17	-23.54	38.16	54.00	15.84	Horizontal
2	2486.8	34.08	27.17	-23.54	37.71	54.00	16.29	Horizontal



SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250400030901
Rev.: 01
Page: 126 of 128

BLE 2M_Channel 39



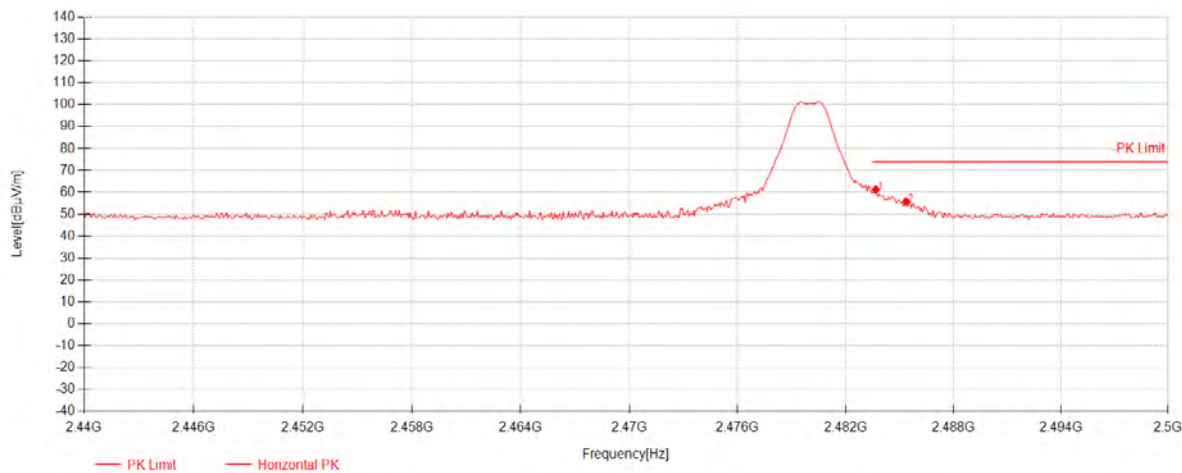
Data List								
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1	2483.86	34.30	27.17	-23.54	37.92	54.00	16.08	Vertical
2	2487.04	34.01	27.17	-23.54	37.64	54.00	16.36	Vertical



SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250400030901
Rev.: 01
Page: 127 of 128

BLE 2M_Channel 39



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2483.68	57.69	27.17	-23.54	61.31	74.00	12.69	Horizontal
2	2485.36	52.23	27.17	-23.54	55.86	74.00	18.14	Horizontal



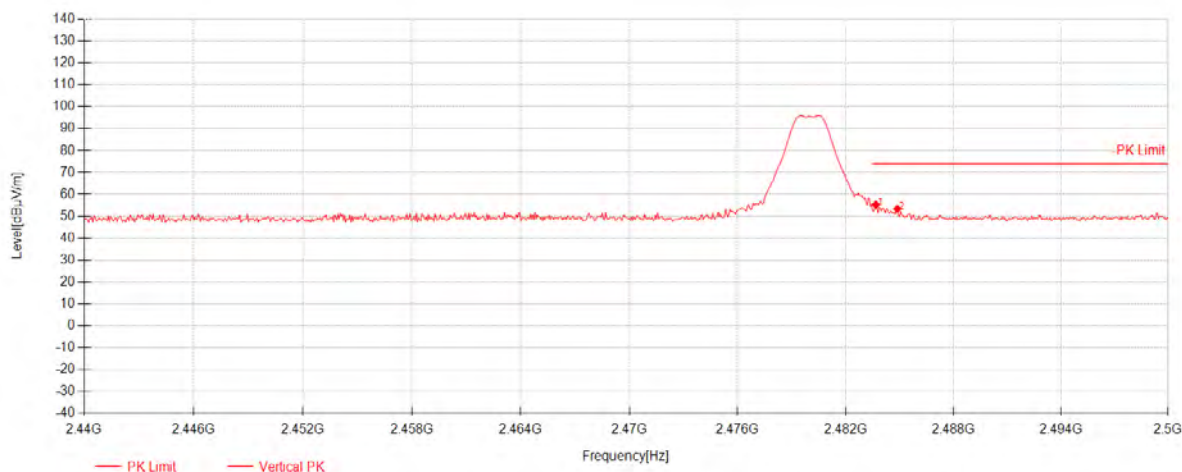
SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250400030901

Rev.: 01

Page: 128 of 128

BLE 2M_Channel 39



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2483.68	51.70	27.17	-23.54	55.32	74.00	18.68	Vertical
2	2484.88	49.71	27.17	-23.54	53.34	74.00	20.66	Vertical

Remark:

- 1) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier gain. The basic equation with a sample calculation is as follows:

Level = Reading(dBμV) + AF(dB/m) + Factor(dB):

AF = Antenna Factor(dB/m)

Factor = Cable Factor(dB) - Preamplifier gain(dB)

Margin = Limit(dBμV/m) – Level(dBμV/m)

---End of Report---